HT-KZ210
HT-TKZ212
HT-TKZ212
HT-KZ310
HT-TKZ312
HT-TKZ315

Digital Home Cinema System

user manual

imagine the possibilities

Thank you for purchasing a Samsung product.
To receive a more complete service,
please register your product at
www.samsung.com/global/register

SAMSUNG

features

Playback of many disc types
This Home Cinema System allows you to play back various discs, including DVD-AUDIO, DVD-VIDEO, CD, MP3-CD, WMA-CD, DivX, CD-R/RW, and DVD±R/RW.

USB Host support
You can enjoy media files such as pictures, movies and music saved on a MP3 player, digital camera or USB memory stick by connecting the storage device to the USB port of the Home Cinema.

Dolby Pro Logic II
Dolby Pro Logic II is a form of multi-channel audio signal decoding technology that improves upon existing Dolby Pro Logic.

DTS (Digital Theater Systems)
DTS is an audio compression format developed by Digital Theater Systems Inc. It delivers full-frequency 5.1 channel sound.

TV Screen Saver Function
If the main unit remains in Stop mode for 3 minutes, the Samsung logo appears on the TV screen.
This product will automatically switch to the Power Saving mode after 20 minutes in the Screen Saver mode.

Power Saving Function
This product will automatically shut off after 20 minutes in Stop mode.

Customized TV Screen Display
This product allows you to select your favorite image during JPEG or DVD playback and set it as your background wallpaper.

Anynet+ (HDMI-CEC) Function
Anynet+ is a function that can be used to operate the main unit using a Samsung TV remote control, by connecting the Home Cinema to a SAMSUNG TV using a HDMI Cable. (This is only available with SAMSUNG TV's that support Anynet+.)

Bluetooth Function (HT-KZ310/TKZ312/TKZ315 only)
You can use a Bluetooth device to enjoy music with high quality stereo sound, all without wires!

AV SYNC Function
Video may lag behind the audio if the unit is connected to a digital TV.
To compensate for this, you can adjust the audio delay time to sync up with the video.

WHAT'S INCLUDED

Check for the supplied accessories below.

Video Cable

FM Antenna

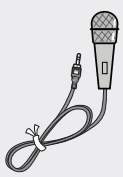
User's Manual

Remote Control

DVD Karaoke Disc

Song List Book

HDMI Cable


MIC

safety information

SAFETY WARNINGS

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

WARNING : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

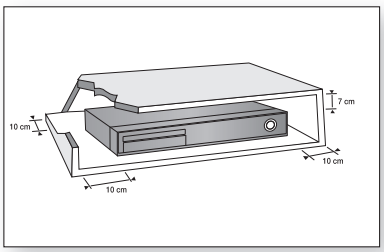
CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

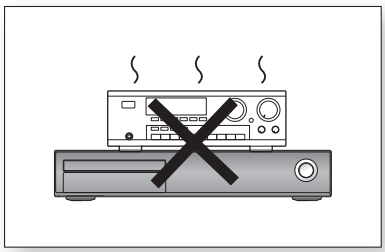
CAUTION
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

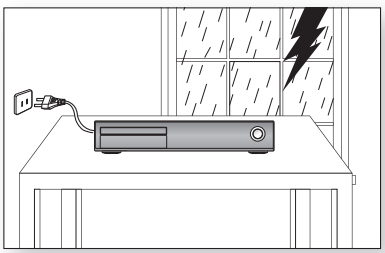
safety information

PRECAUTIONS

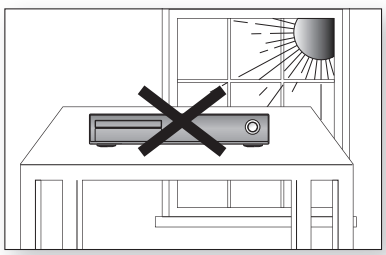




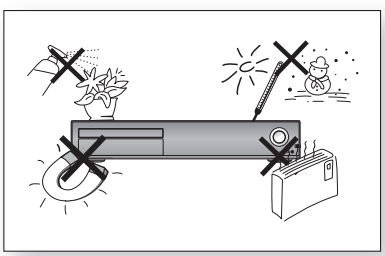
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5~10 cm). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect the AC main plug from the wall outlet. Voltage peaks due to lightning could damage the unit.

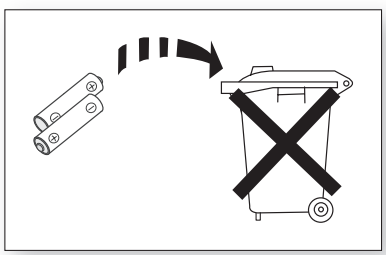


Do not expose the unit to direct sunlight or other heat sources. This could lead to overheating and malfunction of the unit.



Protect the player from moisture (i.e. vases) , and excess heat (e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use. Use of this product is for personal use only.

Condensation may occur if your player or disc has been stored in cold temperatures. If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The batteries used with this product contain chemicals that are harmful to the environment.
Do not dispose of batteries in the general household trash.

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BEFORE READING THE USER'S MANUAL

Make sure to check the following terms before reading the user manual.

Icons that will be used in manual

Icon	Term	Definition
DVD	DVD	This involves a function available with DVD or DVD-R/DVD-RW discs that have been recorded and finalized in Video Mode.
CD	CD	This involves a function available with a data CD (CD-R or CD-RW).
MP3	MP3	This involves a function available with CD-R/-RW discs.
JPEG	JPEG	This involves a function available with CD-R/-RW discs.
DivX	DivX	This involves a function available with MPEG4 discs. (DVD±R/RW, CD-R or CD-RW)
!	Caution	This involves a case where a function does not operate or settings may be cancelled.
	Note	This involves tips or instructions on the page that help each function operate.

- **In this manual, the instructions marked with "DVD (DVD)" are applicable to DVD-VIDEO, DVD-AUDIO and DVD-R/-RW discs that have been recorded in Video Mode and then finalized. Where a particular DVD type is mentioned, it is indicated separately.**
- If a DVD-R/-RW disc has not been recorded properly in DVD Video format, it will not be playable.

About the use of this user's manual

1) Be sure to be familiar with Safety Instructions before using this product. (See pages 3~4)
2) If a problem occurs, check the Troubleshooting. (See pages 77~78)

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DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie cinema or concert hall.

DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

PLAYABLE DISCS

Disc Type	Mark (Logo)	Recorded Signals	Disc Size	Max. Playing Time
DVD-AUDIO DVD-VIDEO		AUDIO + VIDEO	12 cm	Approx. 240 min. (single-sided)
				Approx. 480 min. (double-sided)
			8 cm	Approx. 80 min. (single-sided)
				Approx. 160 min. (double-sided)
AUDIO-CD		AUDIO	12 cm	74 min.
			8 cm	20 min.
DivX		AUDIO + VIDEO	12 cm	—
			8 cm	—

DO NOT USE THE FOLLOWING TYPES OF DISC!

- CD-G, CD-I, CD-ROM, DVD-ROM and DVD-RAM discs cannot be played on this player.
  If such discs are played, a <WRONG DISC FORMAT> message appears on the TV screen.
- DVD discs purchased abroad may not play on this player.
  If such discs are played, a <CAN'T PLAY THIS DISC PLEASE, CHECK REGION CODE> message appears on the TV screen.

COPY PROTECTION

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

DISC TYPE AND CHARACTERISTICS

This product does not support Secure (DRM) Media files.

❖ CD-R Discs

- Some CD-R discs may not be playable depending on the disc recording device (CD-Recorder or PC) and the condition of the disc.
- Use a 650MB/74 minute CD-R disc.
  Do not use CD-R discs over 700MB/80 minutes as they may not be played back.
- Some CD-RW (Rewritable) media, may not be playable.
- Only CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

❖ CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written multisession disc can be played. If there is a blank segment in the Multisession disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- A maximum of 500 tracks can be played per CD.
- A maximum of 300 folders can be played per CD.

❖ CD-R JPEG Discs

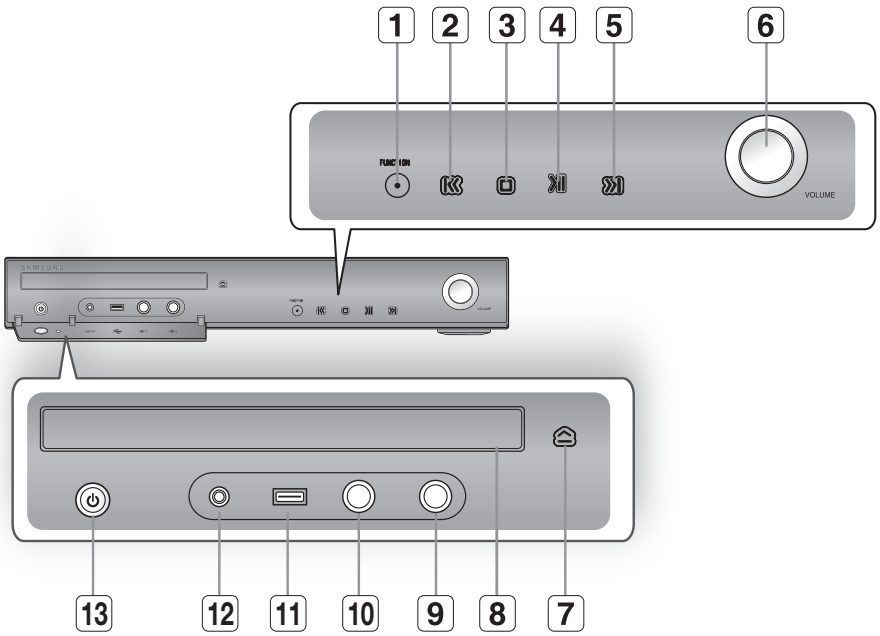
- Only files with the "jpg" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 9,999 images can be stored on a single CD.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

❖ DVD±R/RW, CD-R/RW DivX Discs

- Since this product only provides encoding formats authorized by DivX Networks, Inc., a DivX file created by the user might not play.
- Software updates for incompatible formats are not supported.
  (Example : QPEL, GMC, resolution higher than 800 x 600 pixels, etc.)
- Sections with a high frame rate might not be played while playing a DivX file.
- For more information about the formats authorized by DivX Networks, Inc., please visit "www.divxnetworks.net".

description

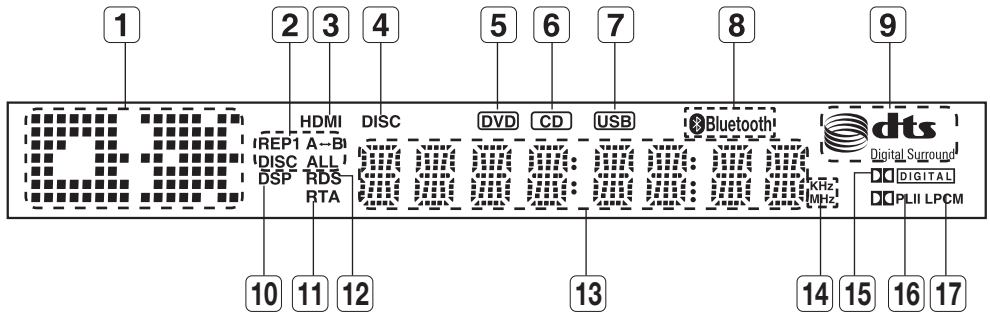
FRONT PANEL



1	FUNCTION BUTTON	6	VOLUME CONTROL	11	USB CONNECTOR
2	TUNING DOWN & SKIP (⏮) BUTTON	7	OPEN/CLOSE BUTTON	12	AUX IN 1 CONNECTOR
3	STOP (⏹) BUTTON	8	DISC TRAY	13	POWER(⏻) BUTTON
4	PLAY/PAUSE (⏯) BUTTON	9	MIC 2 JACK		
5	TUNING UP & SKIP (⏭) BUTTON	10	MIC 1 JACK		

description

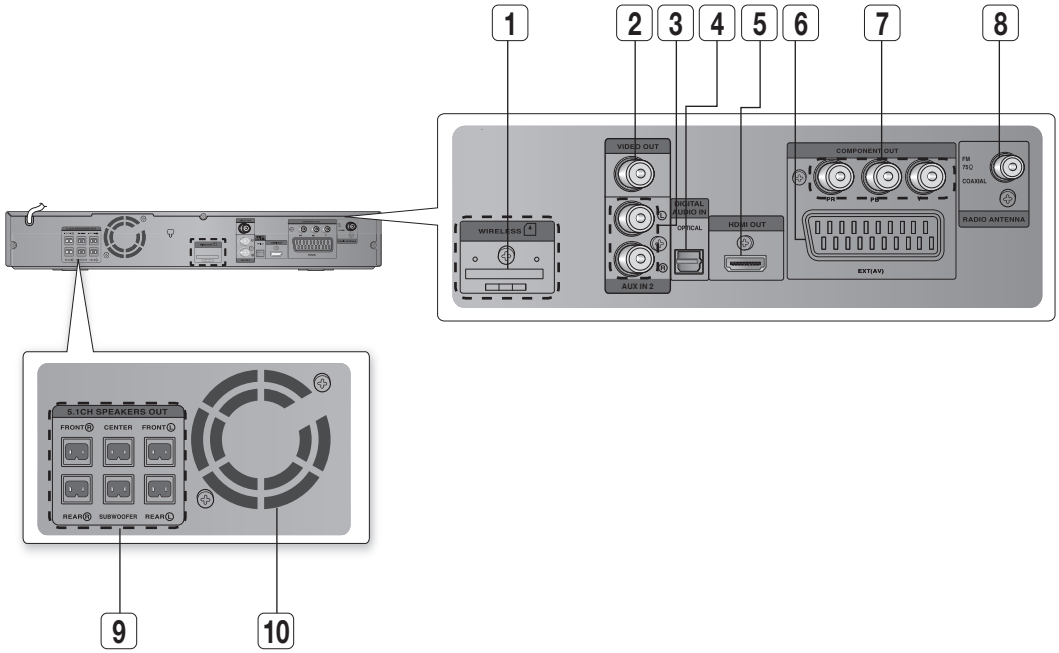
DISPLAY



1	FUNCTION DISPLAY	7	USB INDICATOR	13	SYSTEM STATUS DISPLAY
2	REPEAT INDICATOR	8	BLUETOOTH INDICATOR (HT-KZ310/TKZ312/TKZ315 only)	14	RADIO FREQUENCY INDICATOR
3	HDMI INDICATOR	9	DTS DISC INDICATOR	15	DOLBY DIGITAL INDICATOR
4	DISC INDICATOR	10	DSP INDICATOR	16	PRO LOGIC INDICATOR
5	DVD INDICATOR	11	RTA INDICATOR	17	LPCM INDICATOR
6	CD INDICATOR	12	RDS INDICATOR		

▪ HT-KZ210/TKZ212/TKZ212 doesn't support Bluetooth function.

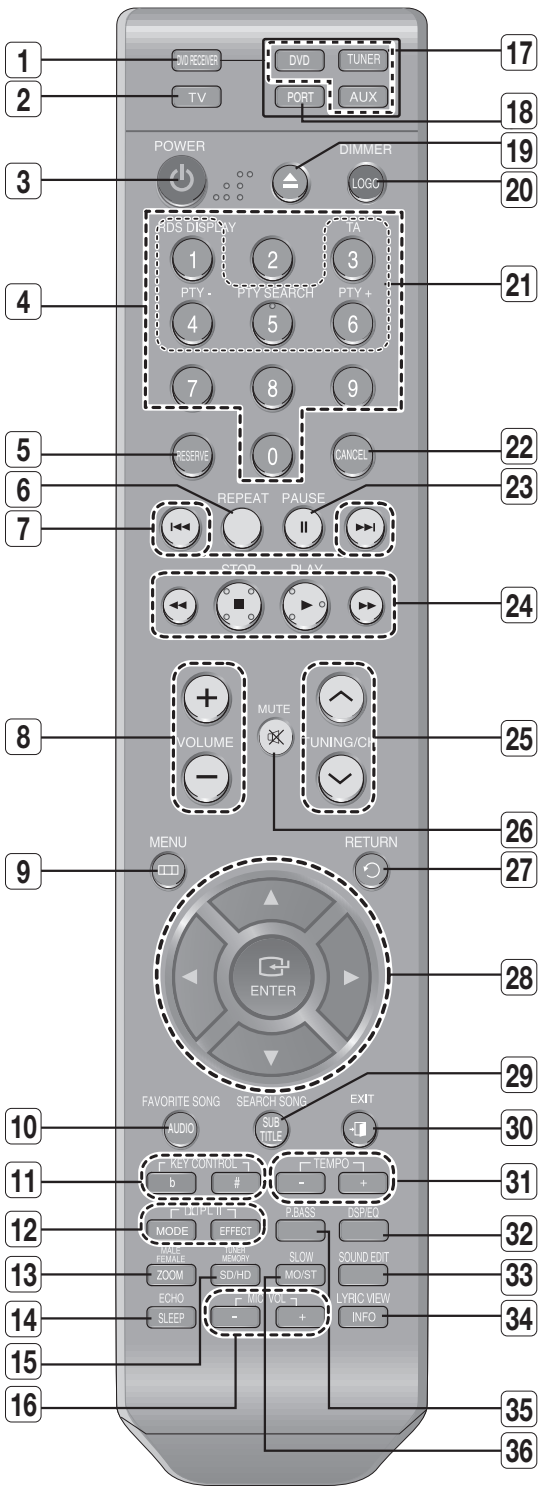
REAR PANEL



1	TX CARD CONNECTION (WIRELESS) (HT-KZ310/TKZ312/TKZ315 only)	The TX card enables communication between the main unit and the optional wireless receiver amplifier.
2	VIDEO OUTPUT JACK	Connect the TV's Video Input jack (VIDEO IN) to the VIDEO OUT jack.
3	AUX IN 2 JACKS	Connect to the 2CH analog output of an external device (such as a VCR)
4	External Digital Optical Input Jack	Use this to connect external equipment capable of digital output.
5	HDMI OUT JACK	Use the HDMI cable, connect this HDMI output terminal to the HDMI input terminal on your TV for the best quality picture.
6	SCART JACK	Connect to a TV with scart input jack.
7	COMPONENT VIDEO OUTPUT JACKS	Connect a TV with Component video inputs to these jacks.
8	FM 75Ω COAXIAL JACK	Connect the FM antenna.
9	SPEAKER OUTPUT CONNECTORS	Connect the front, center, rear speakers and subwoofer.
10	COOLING FAN	The fan always revolves when the power is on. Ensure a minimum of 4 inches of clear space on all sides of the fan when installing the product.

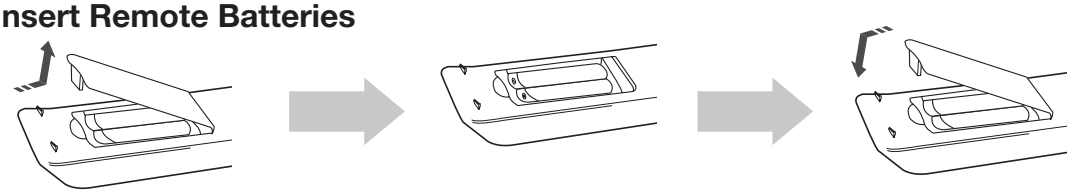
▪ HT-KZ210/TKZ212/TKZ212 doesn't support wireless receivng function.

TOUR OF THE REMOTE CONTROL



1	DVD RECEIVER button
2	TV button
3	POWER button
4	Number (0~9) buttons Number 8 button: COMPONENT SEL. Number 0 button: VIDEO SEL.
5	RESERVE button
6	REPEAT button
7	Tuning Preset/CD Skip buttons
8	VOLUME button
9	MENU button
10	FAVORITE SONG, AUDIO button
11	KEY CONTROL button
12	DOLBY PL II button
13	MALE FEMALE/ZOOM button
14	ECHO/SLEEP button
15	TUNER MEMORY, SD(Standard Definition)/HD(High Definition) button
16	MIC VOL button
17	DVD DVD button TUNER TUNER button AUX AUX button
18	PORT button
19	⏏ OPEN/CLOSE button
20	DIMMER, LOGO button
21	RDS Selection buttons
22	CANCEL button
23	PAUSE button
24	▶ PLAY button ■ STOP button ◀◀ ▶▶ SEARCH buttons
25	TUNING/CH button
26	MUTE button
27	RETURN button
28	Cursor/ENTER button
29	SEARCH SONG, SUBTITLE button
30	EXIT button
31	TEMPO button
32	DSP/EQ button
33	SOUND EDIT button
34	LYRIC VIEW, INFO button
35	P.BASS button
36	SLOW, MO/ST button

Insert Remote Batteries



1. Remove the battery cover in the direction of the arrow.

2. Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).

3. Replace the battery cover.

Follow these precautions to avoid leaking or cracking cells:

- Place batteries in the remote control so they match the polarity : (+) to (+) and (–) to (–).
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose the batteries to heat or a flame.

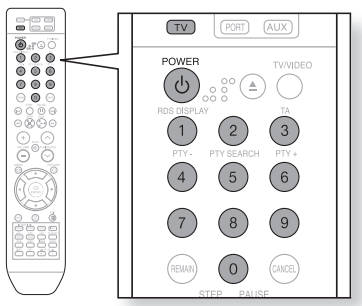
SETTING THE REMOTE CONTROL

You can control certain functions of your TV with this remote control.

When operating a TV with the remote control

1. Press the **TV** button to set the remote to TV mode.
2. Press the **POWER** button to turn on the TV.
3. While holding down the **POWER** button, enter the code corresponding to your brand of TV.
   - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.

   Example : For a Samsung TV
   While holding down the **POWER** button, use the **number** buttons to enter 00, 15, 16, 17 or 40.

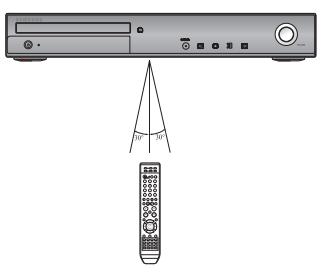


4. If the TV turns off, the setting is complete.
   - You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).

- The remote control may not work on some brands of TVs. Also, some operations may not be possible depending on your brand of TV.
- If you do not set the remote control with the code for your brand of TV, the remote control will work on a Samsung TV by default.

Operation Range of the Remote Control

The remote control can be used up to approximately 23 feet (7 meters) in a straight line.
It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



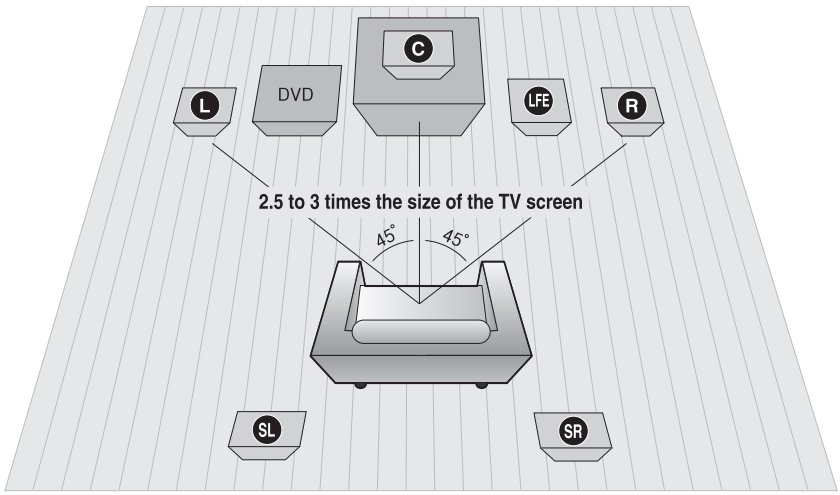
TV Brand Code List

No.	Brand	Code	No.	Brand	Code
1	Admiral (M.Wards)	56, 57, 58	44	MTC	18
2	A Mark	01, 15	45	NEC	18, 19, 20, 40, 59, 60
3	Anam	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14	46	Nikei	03
			47	Onking	03
4	AOC	01, 18, 40, 48	48	Onwa	03
5	Bell & Howell (M.Wards)	57, 58, 81	49	Panasonic	06, 07, 08, 09, 54, 66, 67, 73, 74
6	Brocsonic	59, 60	50	Penney	18
7	Candle	18	51	Philco	03, 15, 17, 18, 48, 54, 59, 62, 69, 90
8	Cetronic	03	52	Philips	15, 17, 18, 40, 48, 54, 62, 72
9	Citizen	03, 18, 25	53	Pioneer	63, 66, 80, 91
10	Cinema	97	54	Portland	15, 18, 59
11	Classic	03	55	Proton	40
12	Concerto	18	56	Quasar	06, 66, 67
13	Contec	46	57	Radio Shack	17, 48, 56, 60, 61, 75
14	Coronado	15	58	RCA/Proscan	18, 59, 67, 76, 77, 78, 92, 93, 94
15	Craig	03, 05, 61, 82, 83, 84	59	Realistic	03, 19
16	Croslex	62	60	Sampo	40
17	Crown	03	61	Samsung	00, 15, 16, 17, 40, 43, 46, 47, 48, 49, 59, 60, 98
18	Curtis Mates	59, 61, 63			
19	CXC	03	62	Sanyo	19, 61, 65
20	Daewoo	02, 03, 04, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 48, 59, 90	63	Scott	03, 40, 60, 61
			64	Sears	15, 18, 19
21	Daytron	40	65	Sharp	15, 57, 64
22	Dynasty	03	66	Signature 2000 (M.Wards)	57, 58
23	Emerson	03, 15, 40, 46, 59, 61, 64, 82, 83, 84, 85	67	Sony	50, 51, 52, 53, 55
24	Fisher	19, 65	68	Soundesign	03, 40
25	Funai	03	69	Spectricon	01
26	Futuretech	03	70	SSS	18
27	General Electric (GE)	06, 40, 56, 59, 66, 67, 68	71	Sylvania	18, 40, 48, 54, 59, 60, 62
28	Hall Mark	40	72	Symphonic	61, 95, 96
29	Hitachi	15, 18, 50, 59, 69	73	Tatung	06
30	Inkel	45	74	Techwood	18
31	JC Penny	56, 59, 67, 86	75	Teknika	03, 15, 18, 25
32	JVC	70	76	TMK	18, 40
33	KTV	59, 61, 87, 88	77	Toshiba	19, 57, 63, 71
34	KEC	03, 15, 40	78	Vidtech	18
35	KMC	15	79	Videch	59, 60, 69
36	LG (Goldstar)	01, 15, 16, 17, 37, 38, 39, 40, 41, 42, 43, 44	80	Wards	15, 17, 18, 40, 48, 54, 60, 64
37	Luxman	18	81	Yamaha	18
38	LXI (Sears)	19, 54, 56, 59, 60, 62, 63, 65, 71	82	York	40
39	Magnavox	15, 17, 18, 48, 54, 59, 60, 62, 72, 89	83	Yupiteru	03
40	Marantz	40, 54	84	Zenith	58, 79
41	Matsui	54	85	Zonda	01
42	MGA	18, 40	86	Dongyang	03, 54
43	Mitsubishi/MGA	18, 40, 59, 60, 75			

connections

This section involves various methods of connecting the Digital Home Cinema to other external components.
Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

CONNECTING THE SPEAKERS



Position of the DVD Player

Place it on a stand or cabinet shelf, or under the TV stand.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV.
Example : For 32" TVs 2~2.4m (6~8feet)
For 55" TVs 3.5~4m (11~13feet)

Front Speakers L R

Place these speakers in front of your listening position, facing inwards (about 45°) toward you.

Place the speakers so that their tweeters will be at the same height as your ear.

Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

Center Speaker C

It is best to install it at the same height as the front speakers. You can also install it directly over or under the TV.

Rear Speakers SL SR

Place these speakers behind your listening position. If there isn't enough room, place these speakers so they face each other. Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.

* Unlike the front and center speakers, the rear speakers are used to handle mainly sound effects and sound will not come from them all the time.

Subwoofer LFE

The position of the subwoofer is not so critical. Place it anywhere you like.

Front/Rear Speaker & Center Speaker

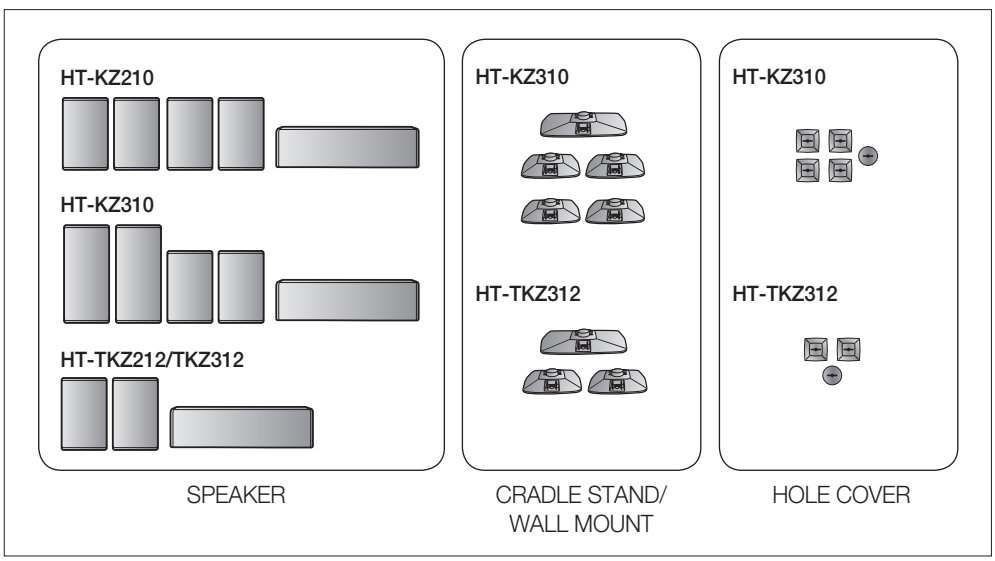
HT-KZ210	Front	Cradle Stand Type (Braket not included)
	Rear	Cradle Stand Type (Braket not included)
	Center	Cradle Stand Type (Braket not included)
HT-TKZ212	Front	Tallboy Stand Type
	Rear	Cradle Stand Type (Braket not included)
	Center	Cradle Stand Type (Braket not included)
HT-TKZ212	Front	Tallboy Stand Type
	Rear	Tallboy Stand Type
	Center	Cradle Stand Type (Braket not included)
HT-KZ310	Front	Cradle Stand Type or Wall Maunt Stand Type
	Rear	Cradle Stand Type or Wall Maunt Stand Type
	Center	Cradle Stand Type or Wall Maunt Stand Type
HT-TKZ312	Front	Tallboy Stand Type
	Rear	Cradle Stand Type or Wall Maunt Stand Type
	Center	Cradle Stand Type or Wall Maunt Stand Type
HT-TKZ315	Front	Tallboy Stand Type
	Rear	Tallboy Stand Type
	Center	Cradle Stand Type or Wall Maunt Stand Type

Front/Rear & Center Speakers Cradle Stand and Wall Mount Installation

Model / ITEM	HT-KZ210	HT-KZ310
SPEAKER	5EA	5EA
CRADLE STAND/ WALL MOUNT	—	5EA
HOLE COVER	—	5EA

Model / ITEM	HT-TKZ212	HT-TKZ312
SPEAKER	3EA	3EA
CRADLE STAND/ WALL MOUNT	—	3EA
HOLE COVER	—	3EA

Speaker Components

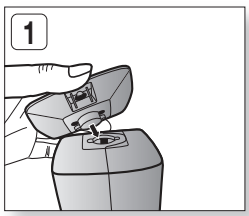


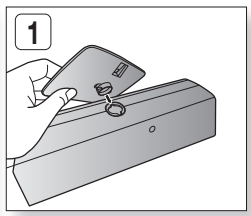
Front / Rear & Center Speakers Cradle Stand and Wall Mount Installation

Installing the Cradle Stand

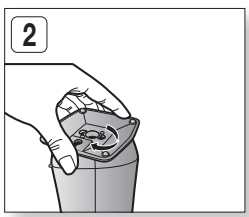
<Front/Rear> <Center>

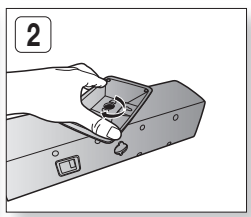
1. Insert the stand so that it fits into the hole as described in the figure.



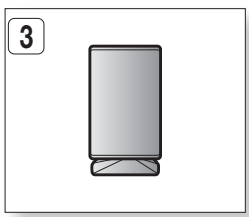


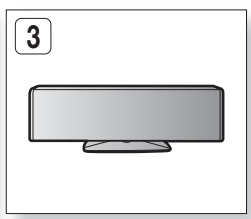
2. Turn the stand clockwise to lock it. (Turning it counter-clockwise will loosen from the hole.)





3. This is the completion of the stand installation.



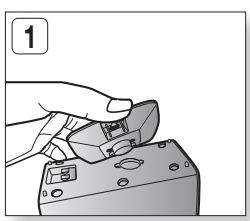


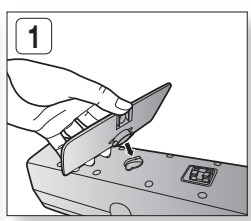
- The speaker system may vary, depending on the model. Please check your speaker system to see if it includes the correct package of "**Front/rear & Center Speakers**" corresponding to your model.

Installing the Wall Mount

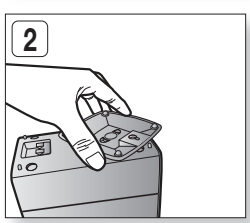
<Front/Rear> <Center>

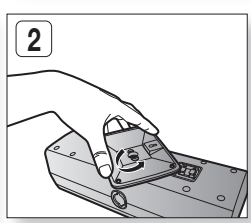
1. Insert the wall mount so that it fits into the rear hole of the speaker as in the figure.





2. Turn the wall mount counter clockwise to fix it. (This is the reverse direction to the cradle stand.)

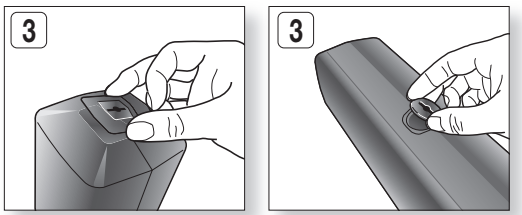




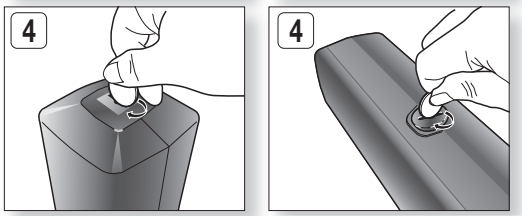
Installing the Wall Mount (Con't)

<Front/Rear> <Center>

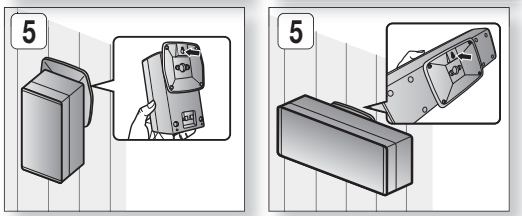
3. Put the hole cover on the hole of the speaker.



4. Use a coin turn the hole cover clock wise to fix it. (Turning it counter-clock wise will loosen from the hole.)



5. Use the wall mount hole (bracket) to install the speaker on the wall.



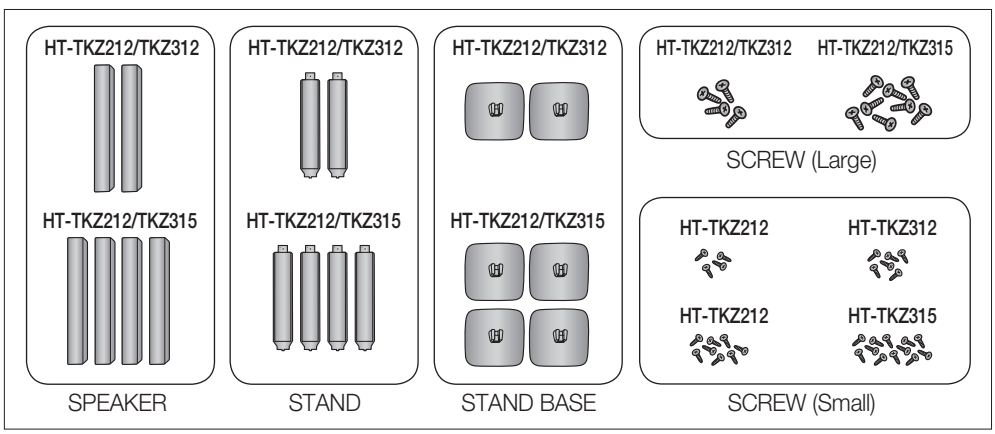
- The speaker system may vary, depending on the model. Please check your speaker system to see if it includes the correct package of "**Front/rear & Center Speakers**" corresponding to your model.
- To avoid the speakers accident falling and consequently damaging yourself and the equipment, make sure the speaker is hung safely.

Front/Rear Tallboy Stand

Model	Item Name	Quantity
HT-TKZ212/TKZ312	SPEAKER	2EA
	STAND	2EA
	STAND BASE	2EA
	SCREW (Large)	4EA
	SCREW (Small)	4EA/6EA

Model	Item Name	Quantity
HT-TKZ212/TKZ315	SPEAKER	4EA
	STAND	4EA
	STAND BASE	4EA
	SCREW (Large)	8EA
	SCREW (Small)	8EA/12EA

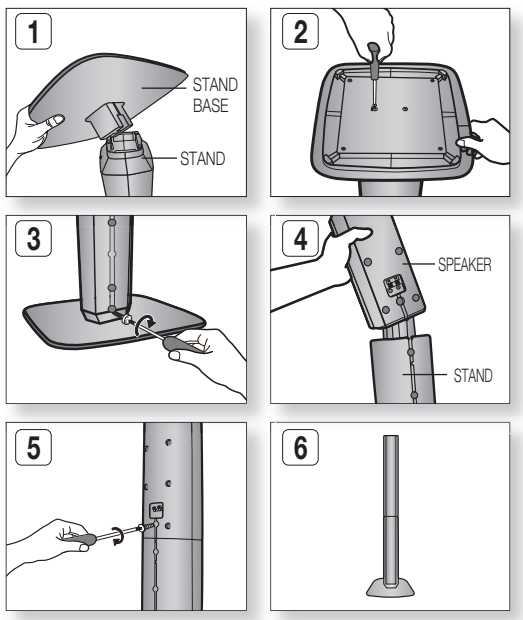
Speaker Components



Front/Rear Tallboy Stand

How to Install the Speaker on the Stand

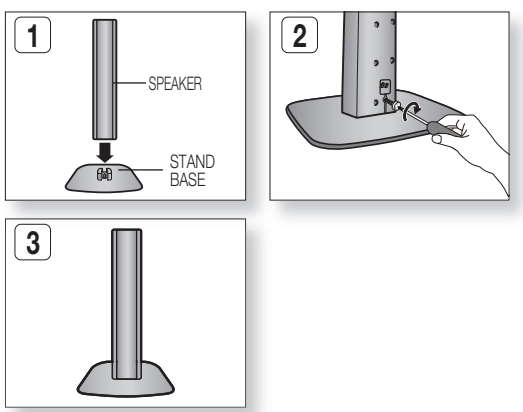
1. Turn the **STAND** upside-down and connect it to the **STAND BASE**.
2. Insert two small **SCREWS** into the two holes marked with arrows using a screwdriver as shown in the illustration.
   (HT-TKZ212 : 2EA, HT-TKZ315 : 3EA)
3. Insert a large **SCREW** into the hole on the rear of the Speaker **STAND**.
4. Connect the assembled stand to the **SPEAKER**.
5. Insert another large **SCREW** into the hole on the rear of the speaker using a screwdriver as shown in the illustration.
6. This is the successfully assembled speaker. Make sure that the speaker is installed on a flat and stable area. Otherwise it may be easily knocked over.



- The speaker system may vary, depending on the model. Please check your speaker system to see if it includes the correct package of "**Front/rear & Center Speakers**" corresponding to your model.

How to Install the Speaker on the Stand Base

1. Connect the **SPEAKER** with the **STAND BASE**.
2. Insert the **SCREW** into the hole on the rear of the speaker using a screwdriver as shown in the illustration.
3. This is the **SPEAKER** successfully assembled with the Stand Base.



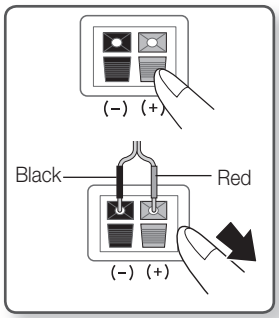
- The speaker system may vary, depending on the model. Please check your speaker system to see if it includes the correct package of "**Front/rear & Center Speakers**" corresponding to your model.

Connecting the Front, Rear, Center and Subwoofer Speakers

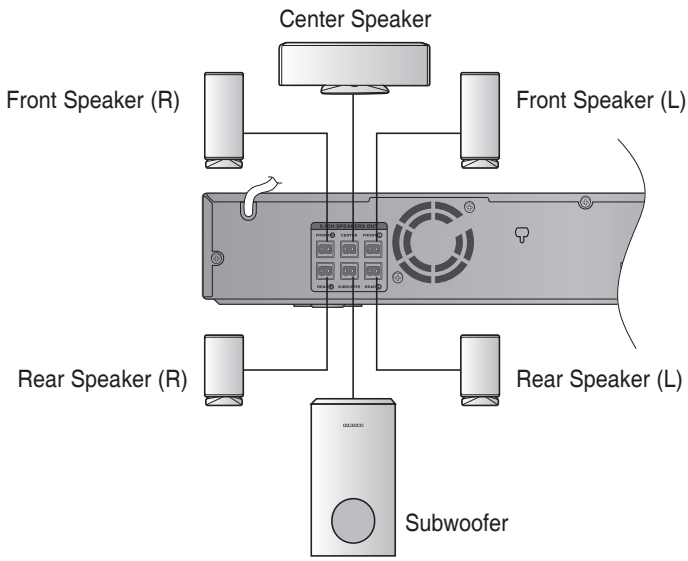
1. Press down the terminal tab on the back of the speaker.

2. Insert the black wire into the black terminal (–) and the red wire into the red (+) terminal, and then release the tab.

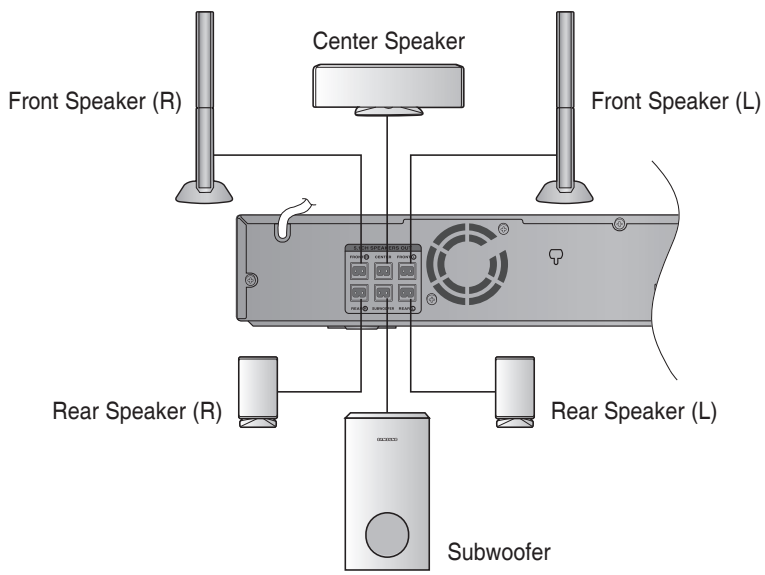
3. Connect the connecting plugs to the back of the Home Cinema.
- Make sure the colors of the speaker terminals match the colors of the connecting plugs.



In case of HT-KZ310

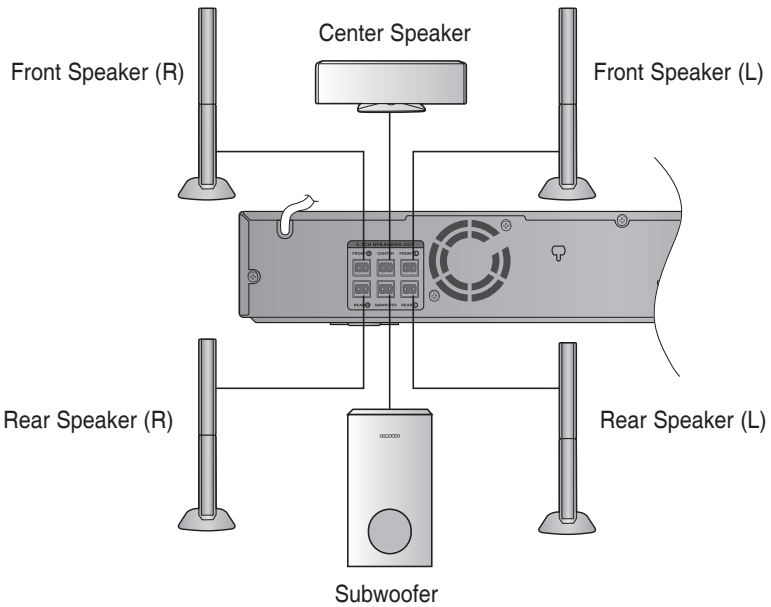


In case of HT-TKZ312



Connecting the Front, Rear, Center and Subwoofer Speakers

HT-TKZ212/HT-TKZ315 only



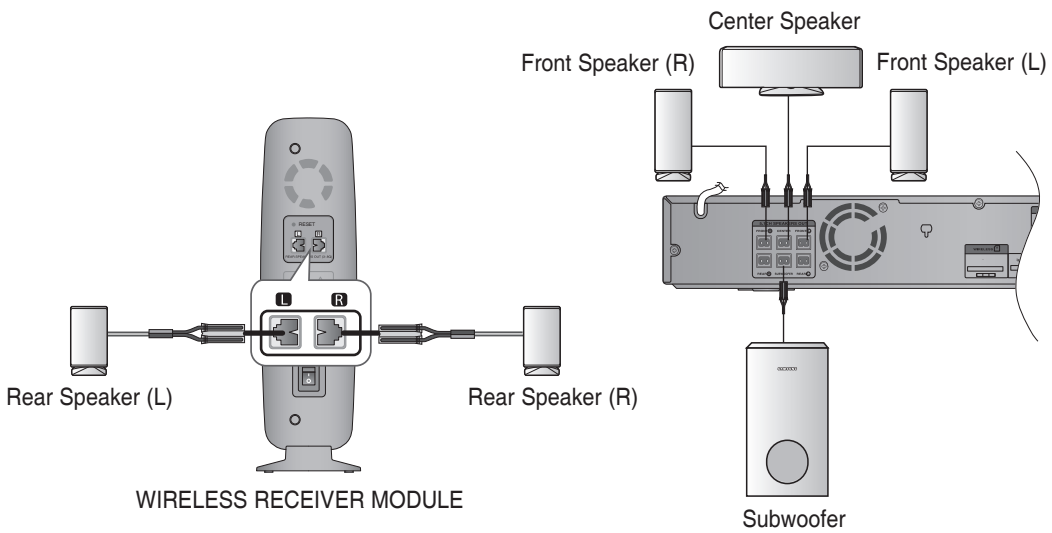
- Do not let children play with or near the speakers. They could get hurt if a speaker falls.
- When connecting the speaker wires to the speakers, make sure that the polarity (+/–) is correct.
- Keep the subwoofer speaker out of reach of children so as to prevent children from inserting their hands or alien substances into the duct (hole) of the subwoofer speaker.
- Do not hang the subwoofer on a wall through the duct (hole).

- If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

CONNECTING THE WIRELESS RECEIVING AMPLIFIER (HT-KZ310/TKZ312/TKZ315 ONLY)

Wireless Receiving Module (SWA-4000)

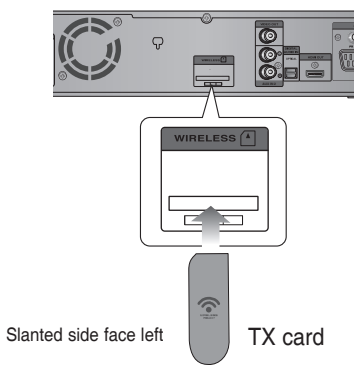
In case of HT-KZ310



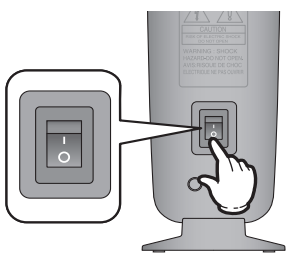
1. Connect the front, center and Subwoofer speakers to the DVD Player, referring to page 23~24.

2. With the DVD Player turned off, insert the TX card into the TX Card Connection (WIRELESS) on the back of the main unit.
- Hold the TX card so that the slanted side faces to the left and insert the card into the port.
- The TX card enables communication between the main unit and the wireless receiver.

3. Connect the left and right rear speakers to the wireless receiving module.



4. Plug the power cord of the wireless receiving module in the wall outlet and switch the power switch **ON**.



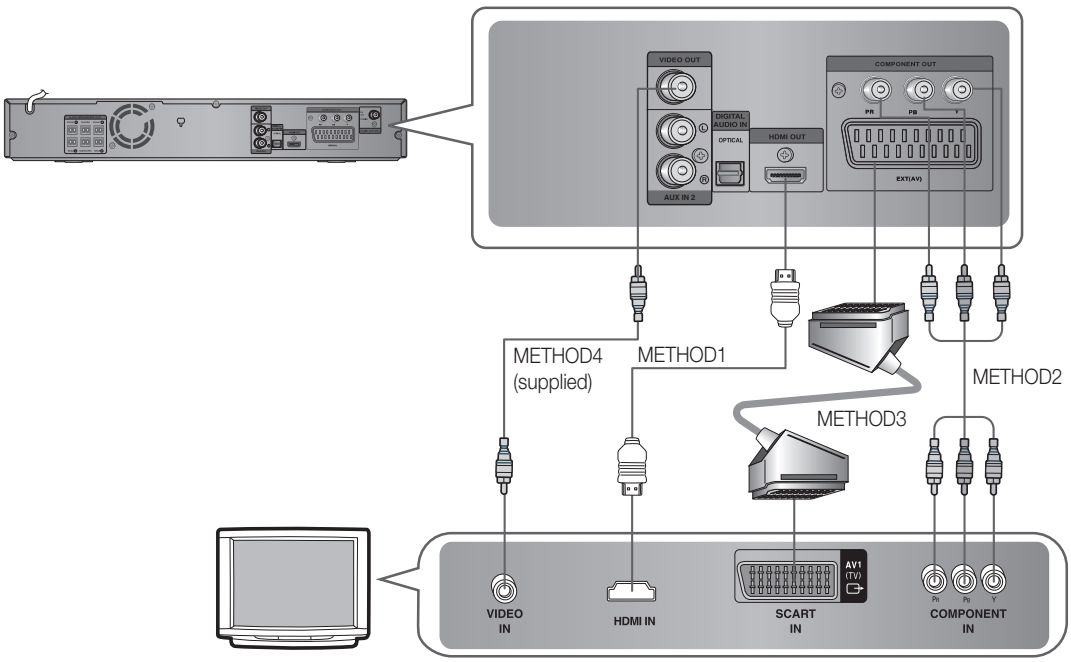
▪ HT-KZ210/TKZ212/TKZ212 doesn't support wireless receivng function.

- Place the wireless receiver module at the rear of the listening position. If the wireless receiver module is too close to the main unit, some sound interruption may be heard due to interference.
- If you use a device such as a microwave oven, wireless LAN Card, Bluetooth equipment, or any other device that uses the same frequency (5.8GHz) near the system, some sound interruption may be heard due to interference.
- The transmission distance from the main unit to the wireless receiving module is about 33 feet (10m), but may vary depending on your operating environment. If a steel-concrete wall or metallic wall is between the main unit and the wireless receiver module, the system may not operate at all, because the radio wave cannot penetrate metal.
- This product(HT-KZ310/TKZ312/TKZ315) is also compatible with the wireless receiver module SWA-3000.
- HT-KZ210/TKZ212/TKZ212 doesn't support wireless receivng function.
- HT-KZ210/TKZ212/TKZ212 doesn't support Bluetooth function.

- Do not insert any other card except the TX card dedicated to the product.
  If a different TX card is used, the product may be damaged or the card may not be removed easily.
- Do not insert the TX card upside down or in the reverse direction.
- Insert the TX card when the DVD Player is turned off. Inserting the card when it is turned on may cause a problem.
- If the TX Card is inserted and wireless receiving module setting is complete, sound is not output from the Rear Speaker connectors on the main unit.
- The wireless receiving antenna is built into the wireless receiver module. Keep the unit away from water and moisture.
- For optimal listening performance, make sure that the area around the wireless receiver module location is clear of any obstructions.
- **If no sound is heard from the wireless rear speakers, switch the mode to DVD 5.1 channel or Dolby ProLogic II .**
- In 2-CH mode, no sound will be heard from the wireless rear speakers.

CONNECTING THE VIDEO OUT TO YOUR TV

Choose one of the four methods for connecting to a TV.



METHOD 1 : HDMI

Connect the HDMI cable (not supplied) from the HDMI OUT jack on the back of the DVD Player to the HDMI IN jack on your TV.

METHOD 2 : Component Video

If your television is equipped with Component Video inputs, connect a Component video cable(not supplied) from the Component Video Output (Pr, Pb and Y) jacks on the back of the DVD Player to the Component Video Input jacks on your TV.

COMPONENT SELECT Function

1. With the main unit turned off, press and hold the **Number 8 (COMPONENT SEL.)** button on the remote control for over 5 seconds.
   - <Y Pb Pr> or <RGB> will appear in the display.
2. Press the **Number 8 (COMPONENT SEL.)** button shortly to select <Y Pb Pr> to set the main unit to COMPONENT mode.

METHOD 3 : Scart

If your television is equipped with a SCART input, connect a SCART (not supplied) from the AV OUT jack on the back panel of the main unit to the SCART IN jack on your television.

1. With the main unit turned off, press and hold the **Number 8 (COMPONENT SEL.)** button on the remote control for over 5 seconds.
   - <Y Pb Pr> or <RGB> will appear in the display.
2. Press the **Number 8 (COMPONENT SEL.)** button shortly to select <RGB> to set SCART mode.

VIDEO SELECT Function

Press and hold the **Number 0 (VIDEO SEL.)** button on the remote control for over 5 seconds.

- <COMPOSITE> or <RGB> will appear in the display. At this time, press the **Number 0 (VIDEO SEL.)** button shortly to select between <COMPOSITE> and <RGB>.
- If Scart (RGB Input) is equipped for your TV, press the **Number 0 (VIDEO SEL.)** button to select RGB mode.
  You can get a better picture quality by using Scart setting.
- If Scart (RGB Input) is not equipped for your TV, press the **Number 0 (VIDEO SEL.)** button to select COMPOSITE mode.

METHOD 4 : Composite Video

Connect the supplied Video cable from the VIDEO OUT jack on the back of the DVD Player to the VIDEO IN jack on your TV.

- Resolutions available for the HDMI output are 480p, 576p, 720p,1080i/1080p.
- This product operates in Interlace scan mode (576i, 480i) for component output.
- If you use an HDMI cable to connect a Samsung TV to the DVD Player, you can operate the Home Cinema using the TV's remote control. This is only available with SAMSUNG TVs that support Anynet+(HDMI-CEC).
- Please check the Anynet+ logo (If your TV has an Anynet+ logo, then it supports the Anynet+ function.)

HDMI Auto Detection Function

The player's video output will automatically change to HDMI mode when connecting an HDMI cable while power is on.

- **HDMI (High Definition Multimedia Interface)**
  HDMI is an interface that enables the digital transmission of video and audio data with just a single connector. Using HDMI, the DVD Home Cinema transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- **HDMI connection description**
  HDMI connector - Supports video and digital audio data.
  - HDMI outputs only a pure digital signal to the TV.
  - If your TV does not support HDCP (High-bandwidth Digital Content Protection), random noise appears on the screen.
- **Why does Samsung use HDMI?**
  Analog TVs require an analog video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the DVD Home Cinema) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the player to your TV.
- **What is the HDCP?**
  HDCP (High-band width Digital Content Protection) is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.
- **What is Anynet+?**
  Anynet+ is a convenient function that offers linked operation of this unit through Samsung TVs with the Anynet+ feature.
  - If your Samsung TV has an Anynet+ logo, then it supports the Anynet+ function.
  - If you turn on the player and insert a disc, the player will start playing the disc, and the TV will turn on automatically and switch to HDMI mode.
  - If you turn on the player and press the Play button with a disc already inserted, the TV will immediately turn on and switch to HDMI mode.

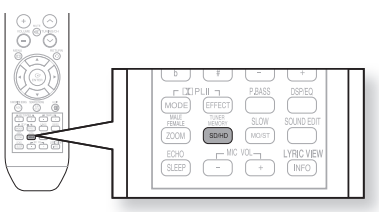
HDMI FUNCTION

Resolution Selection

This function allows the user to select the screen resolution for HDMI output.

In Stop mode, press and hold the **SD/HD** (Standard Definition/ High Definition) button on the remote control.

- Resolutions available for the HDMI output are 576p(480p), 720p, 1080i/1080p.
- SD(Standard Definition) resolution is 576p(480p) and HD (High Definition) resolution is 720p, 1080i/1080p.



- If the TV does not support the configured resolution, you will not be able to see the picture properly.
- When a HDMI cable is connected, composite and component video signals are not output.
- See your TV owner's manual for more information on how to select the TV's Video Input source.
- If a DVD-OK disc is played when the HDMI output resolution is 720p/1080i/1080p,the mode is automatically converted to 576p/480p mode.
- If a DVD-OK disc is played,HDMI resolution convertion is not available.

Why use HDMI (High Definition Multimedia Interface)?

This device transmits a DVD video signal digitally without the process of converting to analog. You will get sharper digital pictures when using an HDMI connection.

HDMI FUNCTION

Using Anynet+(HDMI-CEC)

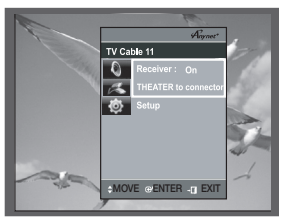
Anynet+ is a function that enables you to control other Samsung Devices with your Samsung TV's remote control. Anynet + can be used by connecting this Home Cinema to a SAMSUNG TV using a HDMI Cable. This is only available with SAMSUNG TVs that support Anynet+.

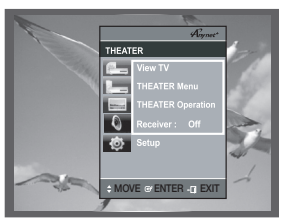
1. Connect the main unit of the Home Cinema to a Samsung TV with an HDMI cable. (See page 27)

2. Set the Anynet+ function on your TV.
(See the TV instruction manual for more information.)
- You can operate the Home Cinema by using the TV remote control. (Available TV buttons : ◀◀, ■, ▶, ▶▶, ▲,▼ and ◀,▶ buttons, 0 ~ 9 button)

With Anynet+

You can operate this unit, power on your TV, or watch a movie by pressing the Play button on your Samsung TV's remote control.





If you select the TV

Set the Anynet+(HDMI-CEC) to On by pressing the Anynet+ button on your TV remote control.

- **Receiver : On** : You can listen to audio through the Home Cinema.
- **Receiver : Off** : You can listen to audio through the TV.

If you select the THEATER

Select **THEATER to connect** and set the option of each item below.

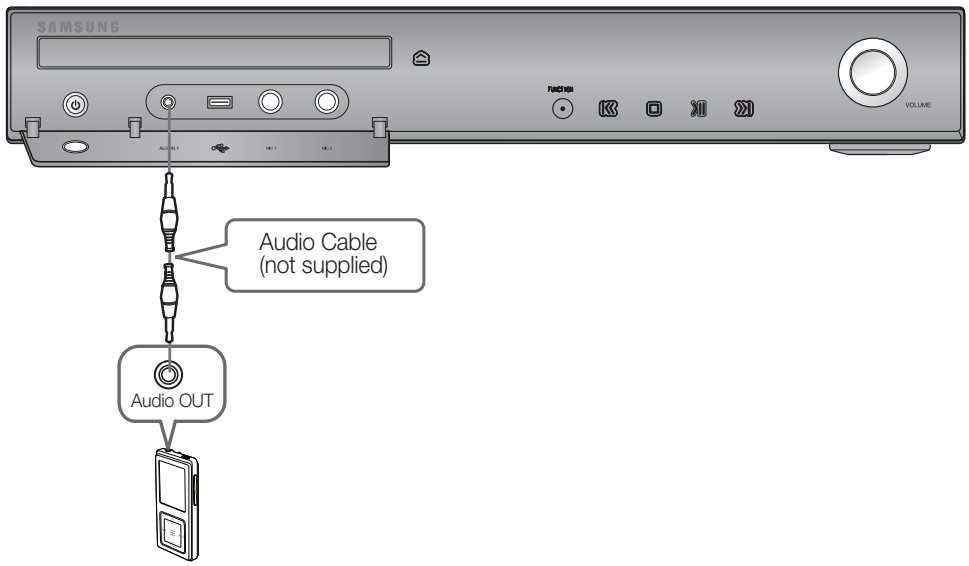
- **View TV** : If anynet+(HDMI CEC) is set to on and you select View TV, the home cinema will automatically switch to digital in mode.
- **Theater Menu** : You can access and control the Home cinema menu.
- **Theater Operation** : The Home Cinema disc playback information will be displayed. You can control the Disc operation of the Home Cinema such as title, chapter and subtitle change.
- **Receiver : On** : You can listen to audio through the Home Cinema.
- **Receiver : Off** : You can listen to audio through the TV.

▪ In case that you choose 'View TV', if you want to listen to TV sound through Digital In, you have to connect the optical cable between the TV and the Home Cinema.

CONNECTING AUDIO FROM EXTERNAL COMPONENTS

AUX1 : Connecting an External Component/MP3 player

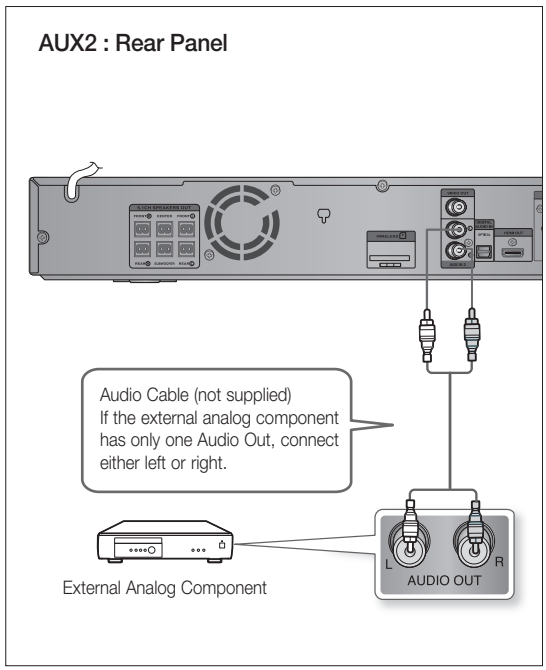
Components such as an MP3 Player.

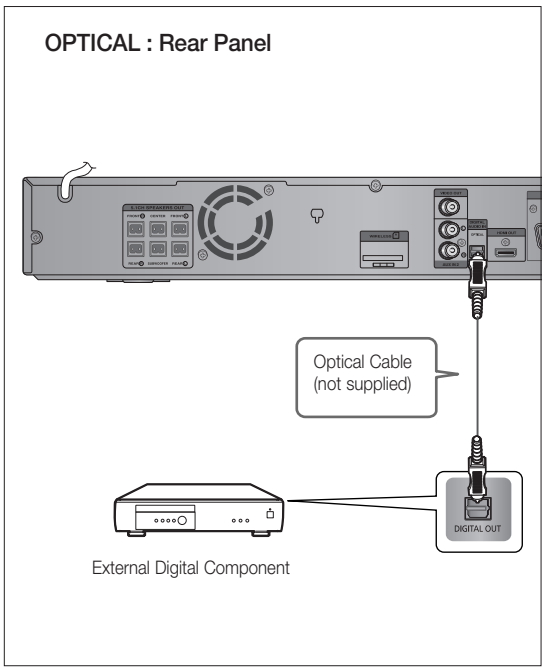


1. Connect AUX IN 1 (Audio) on the Home Cinema to the Audio Out of the external component/MP3 player.

2. Press the **AUX** button on the remote control to select **AUX1** input.
   - You can also use the **FUNCTION** button on the main unit.
     The mode switches as follows :
     DVD/CD → D.IN → AUX 1 → AUX 2 → USB → (**BT AUDIO**) **→ FM**.

▪ HT-KZ210/TKZ212/TKZ212 doesn't support Bluetooth function.


AUX2 : Rear Panel
Audio Cable (not supplied)
If the external analog component has only one Audio Out, connect either left or right.
External Analog Component
L
R
AUDIO OUT



AUX2 : Connecting an External Analog Component

Analog signal components such as a VCR.

1. Connect AUX IN 2 (Audio) on the Home Cinema to the Audio Out of the external analog component.
   - Be sure to match connector colors.

2. Press the **AUX** button on the remote control to select **AUX 2** input.
   - You can also use the **FUNCTION** button on the main unit.
     The mode switches as follows :
     DVD/CD → D.IN → AUX 1 → AUX 2 → USB → (BT AUDIO) → FM.

▪ You can connect the Video Output jack of your VCR to the TV, and connect the Audio Output jacks of the VCR to this product.

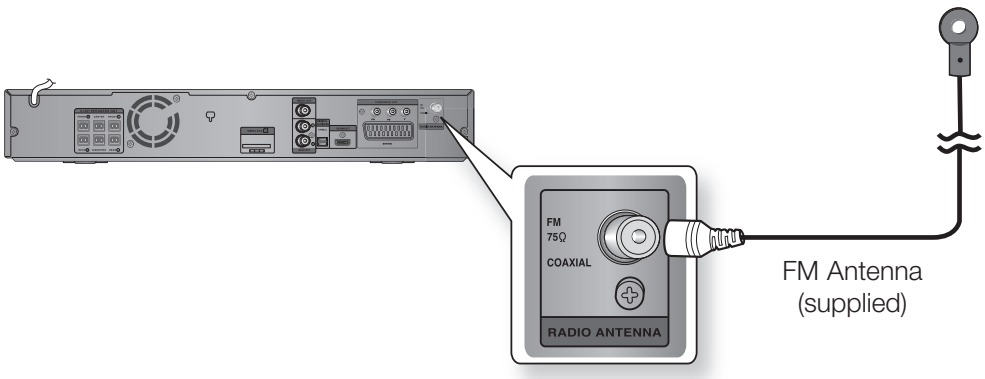
OPTICAL : Connecting an External Digital Component

Digital signal components such as a Cable Box/Satellite receiver (Set-Top Box).

1. Connect the Digital Input (OPTICAL) on the Home Cinema to the Digital Output of the external digital component.
2. Press the **AUX** button on the remote control to select **DIGITAL IN**.
   - You can also use the **FUNCTION** button on the main unit.
     The mode switches as follows :
     DVD/CD → D.IN → AUX 1 → AUX 2 → USB → (BT AUDIO) → FM.

CONNECTING THE FM ANTENNA

1. Connect the FM antenna supplied to the FM 75Ω COAXIAL Jack.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

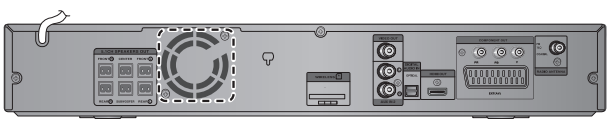


- This unit does not receive AM broadcasts.

Cooling Fan

The cooling fan supplies cool air to the unit to prevent overheating.
Please observe the following cautions for your safety.

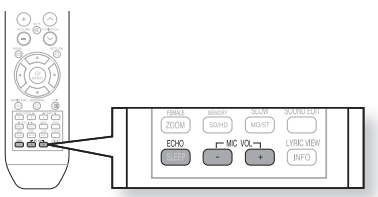
- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit may rise and may damage it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)



CONNECTING MICROPHONE

You can enjoy the feeling of a karaoke bar in the comfort of your home. Watch the video and sing along the lyrics displayed on the TV screen against the accompaniment.

1. Connect the microphone to the MIC jack on the front panel.
   - You can connect up to two microphones.



2. Press the **MIC VOL** button to adjust the voice volume of the microphone.
3. Press the **ECHO** button to adjust the echo level of the microphone.

- If you hear strange noises (squealing or howling) while using the Karaoke feature, move the microphone away from the speakers. Turning down the microphone volume or the speaker volume is also effective.
- When HDMI Audio is on, Mic is not available.

before using your home cinema

The DVD Home Cinema's remote can be used to control Samsung TVs.

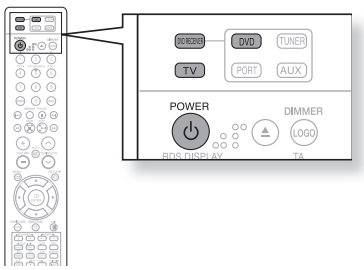
1. Plug the main unit's power cord into the AC power supply.

2. Press the **DVD RECEIVER** button to operate the DVD Home Cinema.

3. Press the **FUNCTION** button on the main unit or **DVD** button on the remote to enable DVD/CD playback.

4. Press the **TV** button to set the remote to TV mode.

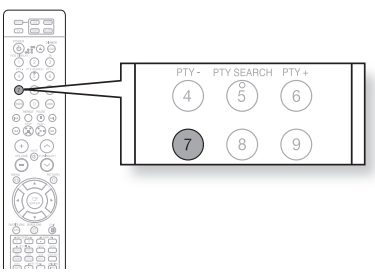
5. Press the **POWER** button to turn on your Samsung TV with this remote.



Selecting the Video Format

Press and hold the Number 7 button on the remote controller for over 5 seconds while the power is turned off.

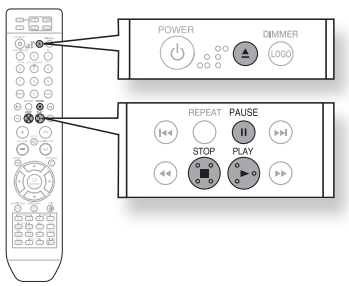
- By default, the video format is set to "PAL".
- "NTSC" or "PAL" will appear in the display. At this time, press the Number 7 button shortly to select between "NTSC" and "PAL".
- Each country has a different video format standard.
- For normal playback, the video format of the disc must be the same as the video format of your TV.



DISC PLAYBACK

DVD CD

1. Press the **OPEN/CLOSE** (⏏) button to open the disc tray.
2. Load a disc.
   - Place a disc gently into the tray with the disc's label facing up.
3. Close the compartment by pressing the **OPEN/CLOSE** (⏏) button again.
   - Playback starts automatically.



To stop playback, press the STOP (⊙) button during playback.

- If pressed once, **PRESS PLAY** is displayed and the stop position will be stored in memory. If the **PLAY** (⊙) button or **ENTER** button is pressed, playback resumes from the stop position. (This function works only with DVDs.)
- If pressed twice, **STOP** is displayed, and if the **PLAY** (⊙) button is pressed, playback starts from the beginning.

To temporarily pause playback, press the PAUSE (⊙) button during playback.

- To resume playback, press the **PLAY** (⊙) button.

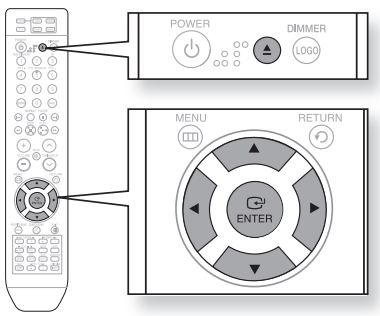
- Depending on the content of the disc, the initial screen may appear different.
- Pirated discs will not run in this player because it violates the CSS (Content Scrambling System : a copy protection system) recommendations.

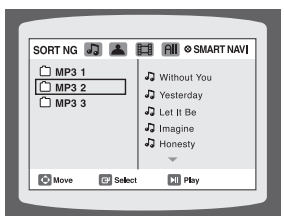
MP3/WMA-CD PLAYBACK

Data CDs (CD-R, CD-RW) encoded in MP3/WMA format can be played.

MP3

1. Place the MP3/WMA disc on the disc tray.
   - The MP3/WMA menu screen will appear and playback will start.
   - The appearance of the menu depends on the MP3/WMA disc.
   - WMA-DRM files cannot be played.
2. In Stop mode, use the Cursor ▲,▼,◀,▶ button to select the album, and then press the **ENTER** button.
   - Use the Cursor ▲,▼ button to select the track.
3. To change the album, use the Cursor ▲,▼,◀,▶ button to select another album in Stop mode, and then press the **ENTER** button.
4. Press the **STOP** (■) button to stop playback.

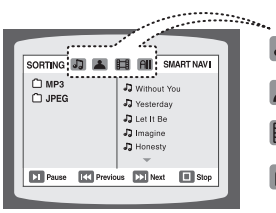




- Depending on the recording mode, some MP3/WMA-CDs may not play.
- Table of contents of a MP3-CD varies depending on the MP3/WMA track format recorded on the disc.

To play a file icon in the screen,

- **Press the Cursor ▲,▼,◀,▶ button when it is in Stop mode and select a desired icon from the top part of the menu.**



Music File Icon : To play music files only, select the Icon.

Image File Icon : To view image files only, select the Icon.

Movie File Icon : To view movie files only, select the Icon.

All File Icon : To view all files select the Icon.

JPEG FILE PLAYBACK

Images captured with a digital camera or camcorder, or JPEG files on a PC can be stored on a CD and then played back with this Home Cinema.

Slide Mode

JPEG

Place the JPEG disc on the disc tray.

- Playback starts automatically.
  Each image is displayed for 5 seconds and then the next image is displayed.

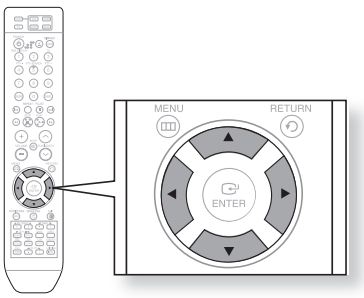
Press the ⏮,⏭ button to skip to the next slide.

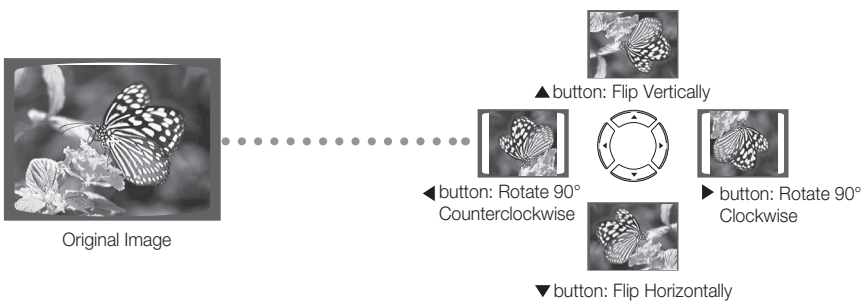
- Each time the button is pressed, the slide moves backward or forward.

Rotate/Flip Function

JPEG

Press the Cursor ▲,▼,◀,▶ button during playback.





- The maximum resolutions supported by this product are 5120 x 3480 (or 19.0 MPixel) for standard JPEG files and 2048 x 1536 (or 3.0 MPixel) for progressive image files.
- If a JPEG file is played when the HDMI output resolution is 720p/1080i/1080p, the mode is automatically converted to 576p/480p mode.

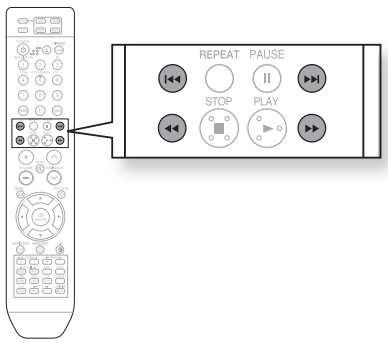
DIVX PLAYBACK

The functions on this page apply to DivX disc playback.

Skip Forward/Back

During playback, press the ⏮,⏭ button.

- Goes to the next file whenever you press the ⏭ button, if there are 2 files or more on the disc.
- Goes to the previous file whenever you press the ⏮ button, if there are 2 files or more on the disc.



Fast Playback

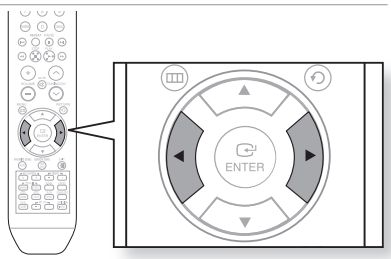
To play back the disc at a faster speed, press the ◀◀ or ▶▶ button during playback.

- Each time you press either button, the playback speed will change as follows:
  2x → 4x → 8x → 32x → Normal.

5 Minute Skip function

During playback, press the Cursor ◀,▶ button.

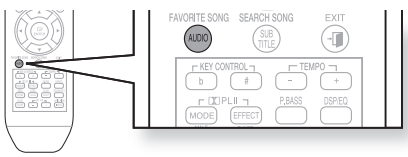
- Playback skips 5 minutes forward whenever you press the Cursor ▶ button.
- Playback skips 5 minutes back whenever you press the Cursor ◀ button.



Audio Display

Press the **AUDIO** button.

- If there are multiple audio languages on a disc, you can toggle between them.
- Each time you press the button, your selection will toggle between **AUDIO (1/N, 2/N ...)** and ✋.

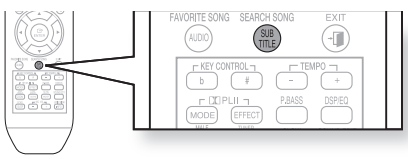


▪ ✋ is displayed when there is one supported language in the disc.

Subtitle Display

Press the **SUBTITLE** button.

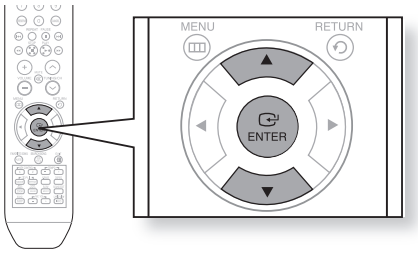
- Each time you press the button, your selection will toggle between **SUBTITLE (1/N, 2/N ...)** and **SUBTITLE OFF**.
- If the disc has only one subtitle file, it will be played automatically.
- See number 2 (Caption Function) on the next page for more details concerning Subtitle usage with DivX discs.



If the Disc has more than One Subtitle File

If the disc has more than one subtitle file, the default subtitle may not match the movie and you will have to select your subtitle language as follows:

1. In Stop mode, press the Cursor ▲,▼ button, select the desired subtitle ( ) from the TV screen, and then press the **ENTER** button.
2. When you select the desired DivX file from the TV screen, the movie will be played normally.



DivX(Digital internet video eXpress)

DivX is a video file format developed by Microsoft and is based on MPEG4 compression technology to provide audio and video data over the Internet in real-time.

MPEG4 is used for video encoding and MP3 for audio encoding so that the users can watch a movie at near DVD-quality video and audio.

1. Supported Formats

This product only supports the following media formats.If both video and audio formats are not supported, you may experience problems such as broken images or no sound.

Supported Video Formats

Format	AVI	WMV
Supported Versions	DivX3.11~DivX5.1, XviD	V1/V2/V3/V7

Supported Audio Formats

Format	MP3	WMA	AC3	DTS
Bit Rate	80~384kbps	56~128kbps	128~384kbps	1.5Mbps
Sampling Frequency	44.1khz		44.1/48khz	44.1khz

- DivX files, including audio and video files, created in the DTS format can only support up to 6Mbps.
- Aspect Ratio : Although the default DivX resolution is 640x480 pixels (4:3), this product supports up to 800x600 pixels (16:9). TV screen resolutions higher than 800 will not be supported.
- When you play a disc whose sampling frequency is higher than 48khz or 320kbps, you may experience shaking on the screen during playback.

2. Caption Function

- You must have some experience with video extraction and editing in order to use this feature properly.
- To use the caption function, save the caption file (*.smi) in the same file name as that of the DivX media file (*.avi) within the same folder.
  Example. Root Samsung_007CD1.avi
  Samsung_007CD1.smi
- Up to 60 alphanumeric characters or 30 East Asian characters (2 byte characters such as Korean and Chinese) for the file name.

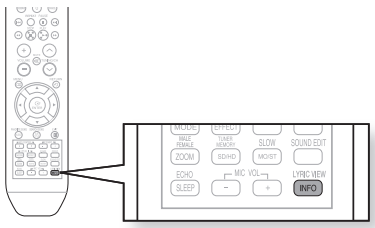
USING THE PLAYBACK FUNCTION

Displaying Disc Information

DVD CD MP3 JPEG DivX

You can view disc playback information on the TV screen.

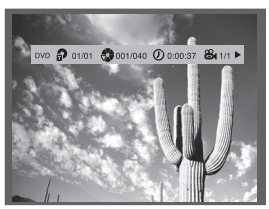
Press the **INFO** button.



- Depending on the disc, the disc information display may appear different.
- Depending on the disc, you can also select DTS, DOLBY DIGITAL, or PRO LOGIC.

appears on the TV screen!

If this symbol appears on the TV screen when pressing a button, that operation is not possible with the disc currently being played.



Fast Playback

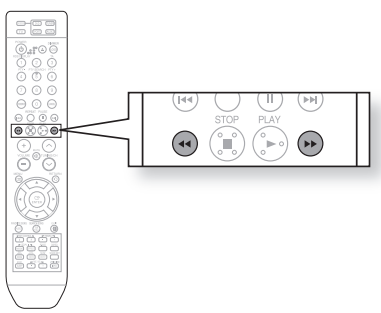
DVD CD MP3 DivX

Press the ◀◀, ▶▶ button.

- Each time the button is pressed during playback, the playback speed changes as follows:

◀◀ 2X → ◀◀ 4X → ◀◀ 8X → ◀◀ 32X → ▶ PLAY

▶▶ 2X → ▶▶ 4X → ▶▶ 8X → ▶▶ 32X → ▶ PLAY



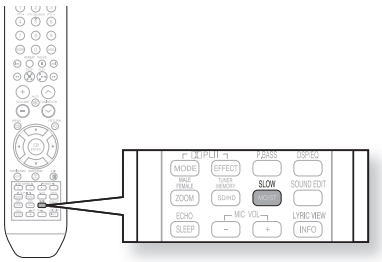
- During fast playback of a CD or MP3-CD, sound is heard only at 2x speed, and not at 4x, 8x, and 32x speeds.

Slow Playback

DVD DivX

Press the **SLOW** button.

- Each time the button is pressed during playback, the playback speed changes as follows:



DVD ▮▶1/2 → ▮▶1/4 → ▮▶1/8 → ◀▮1/2 → ◀▮1/4 → ◀▮1/8 → ▶ PLAY

DivX ▮▶1/2 → ▮▶1/4 → ▮▶1/8 → ▶ PLAY

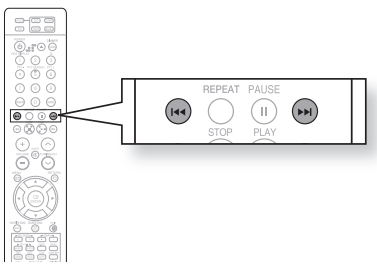
- No sound is heard during slow playback.
- Reverse slow playback does not work with CD.

Skipping Scenes/Songs

DVD MP3

Press the ⏮,⏭ button.

- Each time the button is pressed during playback, the previous or next chapter, track or directory (file) will be played.
- You cannot skip chapters consecutively.



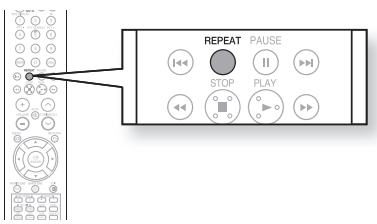
Repeat Playback

DVD CD MP3 JPEG DivX

Repeat playback allows you to repeatedly play a chapter, title, track (song), or directory (MP3 file).

Press the **REPEAT** button.

- Each time the button is pressed during playback, the repeat playback mode changes as follows:



DVD-VIDEO REPEAT : CHAPTER → REPEAT : TITLE → REPEAT : OFF

DVD-AUDIO REPEAT : TRACK → REPEAT : GROUP → REPEAT : OFF (HT-KZ310/TKZ312/TKZ315 Only)

CD REPEAT : TRACK → REPEAT : DISC → REPEAT : OFF

MP3 JPEG DivX REPEAT : RANDOM → REPEAT : TRACK → REPEAT : DIR → REPEAT : DISC → REPEAT : OFF

USING THE PLAYBACK FUNCTION

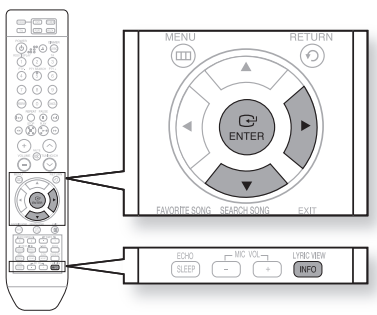
Repeat Playback Options

CHAPTER : Repeatedly plays the selected chapter.
TITLE : Repeatedly plays the selected title.
GROUP : Repeatedly plays the selected group.
RANDOM : Plays tracks in random order. (A track that has already been played may be played again.)
TRACK : Repeatedly plays the selected track.
DIR : Repeatedly plays all tracks in the selected folder.
DISC : Repeatedly plays the entire disc.
OFF : Cancels Repeat Playback.

To Select a Repeat Playback Mode in the Disc Information Screen

DVD CD

1. Press the **INFO** button twice.
2. Press the Cursor ▶ button to move to REPEAT PLAYBACK (↻) display.
3. Press the Cursor ▼ button to select the desired Repeat Playback mode.
   - To select another album and track, repeat Steps 2 and 3 above.
4. Press the **ENTER** button.



DVD **OFF → A- → CHAP → TITLE → OFF**

CD **OFF → A- → TRACK → DISC → OFF**

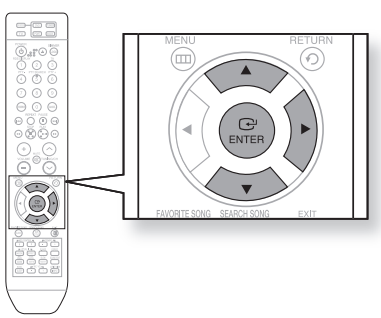
▪ For DivX, MP3 and JPEG discs, you cannot select Repeat Play from the information display screen.

A-B Repeat Playback

DVD

You can repeatedly play back a designated section of a DVD.

1. Press the **INFO** button twice.
2. Press the Cursor ▶ button to move to REPEAT PLAYBACK (↻) display.
3. Press the Cursor ▲,▼ button to select **A-** and then press the **ENTER** button.
   - When the **ENTER** button is pressed, the selected position will be stored in memory.
4. Press the **ENTER** button at the end of the desired segment.
   - The specified segment will be played repeatedly.



A TO B REPEAT ON

➢ To return to normal playback, press the Cursor ▲,▼ button to select ↻ OFF.

▪ The A-B Repeat function does not operate with DivX, MP3 or JPEG discs.

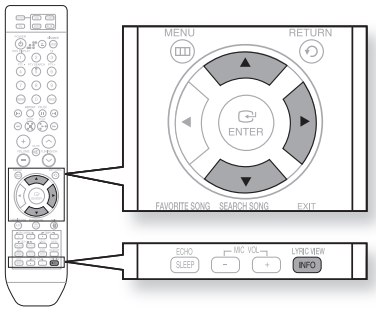
Angle Function

DVD

This function allows you to view the same scene in different angles.

1. Press the **INFO** button.
2. Press the Cursor ▶ button to move to ANGLE (🎥) display.
3. Press the Cursor ▲,▼ button or numeric buttons to select the desired angle.
   - Each time the button is pressed, the angle changes as follows:

   🎥 1/3 → 🎥 2/3 → 🎥 3/3 → 🎥 1/3



■ The Angle function works only with discs on which multiple angles have been recorded.

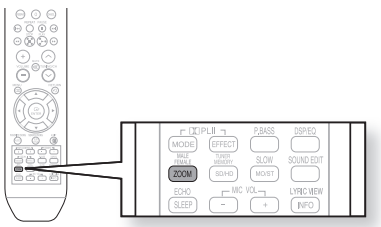
Zoom (Screen Enlarge) Function

DVD

This function allows you to enlarge a particular area of the displayed image.

1. Press the **ZOOM** button.
2. Press the Cursor ▲,▼,◀,▶ button to move to the area you want to enlarge.
3. Press the **ENTER** button.
   - Each time the button is pressed, the zoom level changes as follows:

   ZOOM X 1.5 →ZOOM X 2 →ZOOM X 3 →ZOOM OFF



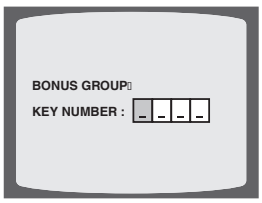
USING THE PLAYBACK FUNCTION

Bonus Group (HT-KZ310/TKZ312/TKZ315 Only)

DVD-AUDIO

Some DVD-Audio discs have an extra 'bonus' group that requires a 4-digit key number to access. See the disc packaging for details and the key number.

When you play a DVD-Audio disc that has a bonus group, the key number input screen appears automatically.



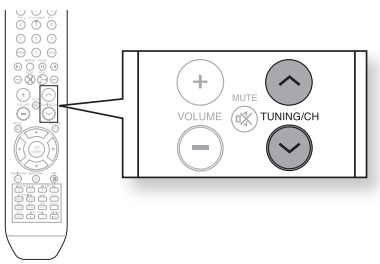
- If you eject the disc, switch the power off, or unplug the player, you will need to re-enter the key number.

Navigating Pages (HT-KZ310/TKZ312/TKZ315 Only)

DVD-AUDIO

During playback, press the ∨,∧ button on the remote control.

- You can select the desired image from a DVD-Audio disc containing still images.
- With some discs, you may not be able to select images.

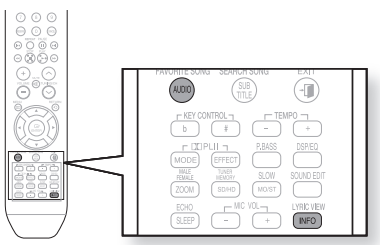


Audio Language Selection Function

DVD

1. Press the **INFO** button twice.
2. Press the Cursor ▲,▼ button or numeric buttons to select the desired audio language.
   - Depending on the number of languages on a DVD disc, a different audio language (ENGLISH, SPANISH, FRENCH, etc.) is selected each time the button is pressed.

   EN 1/3 → SP 2/3 → FR 3/3 → EN 1/3

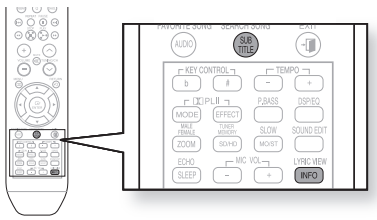


Subtitle Language Selection Function

DVD

1. Press the **INFO** button twice.
2. Press the Cursor ▶ button to move to **SUBTITLE** ( ) display.
3. Press the Cursor ▼ button or numeric buttons to select the desired subtitle.

   EN 01/03 → SP 02/03 → FR 03/03 → OFF/03 → EN 01/03



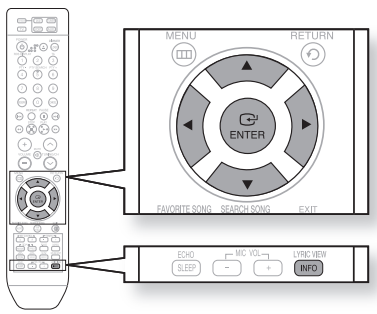
- To operate this function, you can also press the AUDIO or SUBTITLE buttons on the remote control.
- Depending on the disc, the Subtitle and Audio Language functions may not be available.

Moving Directly to a Scene/Song

DVD CD MP3 JPEG

DVD CD

1. Press the **INFO** button.
2. Press the Cursor ▲,▼ button or numeric buttons to select the desired title/track ( ) and then press the **ENTER** button.
3. Press the Cursor ◀,▶ button to move to the Chapter ( ) display.
4. Press the Cursor ▲,▼ button or numeric buttons to select the desired chapter and then press the **ENTER** button.
5. Press the Cursor ◀,▶ button to move to time ( ) display.
6. Press the numeric buttons to select the desired time and then press the **ENTER** button.



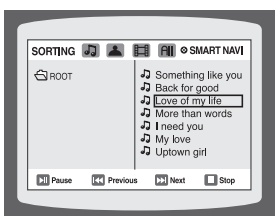
Moving Directly to a Scene/Song

DVD CD MP3 JPEG

MP3 JPEG

Press the **numeric** buttons.

- The selected file will be played.
- When playing an MP3 or JPEG disc, you cannot use the Cursor ▲,▼ button to move to a folder.
  To move a folder, press the **STOP** ( ) and then press the Cursor ▲,▼ button.



- You can press the ⏮,⏭ button on the remote control to move directly to the desired title, chapter, or track.
- Depending on the disc, you may not be able to move to the selected title or time.

USING THE PLAYBACK FUNCTION

Using the Disc Menu

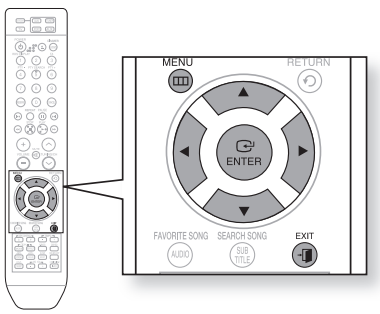
DVD

You can use the menus for the audio language, subtitle language, profile, etc.

DVD menu contents differ from disc to disc.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▲,▼ button or numeric buttons to move to **Disc Menu** and then press the **ENTER** button.
   - When you select Disc Menu and it is not supported by the disc, the "**This menu is not supported**" message appears on the screen.
3. Press the Cursor ▲,▼,◀,▶ button to select the desired item.
4. Press the **ENTER** button.

➢ **Press the EXIT button to exit the setup screen.**



▪ The disc menu display may be different depending on the disc.

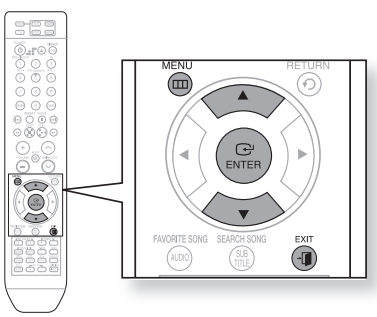
Using the Title Menu

DVD

For DVDs containing multiple titles, you can view the title of each movie. Depending on the disc, the availability of this feature may vary.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▲,▼ button to move to **Title Menu**.
3. Press the **ENTER** button.
   - The title menu appears.

➢ **Press the EXIT button to exit the setup screen.**



▪ The Title menu display may be different depending on the disc.

USING BLUETOOTH

You can use a Bluetooth device to enjoy music with high quality stereo sound, all without wires!

What is Bluetooth?

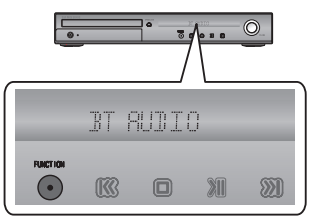
Bluetooth is a new technology that enables Bluetooth-compliant devices to easily interconnect with each other using a short wireless connection.

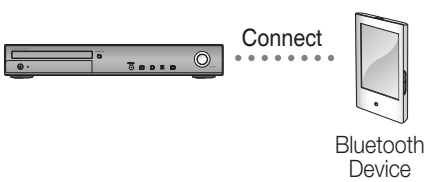
- A Bluetooth device may cause a noise or malfunction, depending on usage.
  - When a part of the body is in contact with the receiving/transmitting system of the Bluetooth device or the Home Cinema System.
  - Electrical variation from electrical jamming by the wall, corner or office partitioning.
  - Electrical interference from the same frequency-band devices including medical equipment, microwave oven and wireless LAN.
- Pair the Home Cinema System with the Bluetooth device while maintaining a close distance.
- The further the distance is between Home Cinema System and Bluetooth device, the worse the quality. If the distance exceeds the Bluetooth operational range, the connection is lost.
- In poor reception-sensitivity areas, the Bluetooth connection may not work properly.
- The Home Cinema System has an effective reception range of up to 10 m in all directions if there are no obstacles. The connection will be automatically cut off if the distance is out of this range. Even within this range, the sound quality may be deteriorated by obstacles such as walls or doors.

To connect the Home Cinema System to a bluetooth device

Check if the Bluetooth device supports the Bluetooth-compliant stereo headset function.

1. Press the **FUNCTION** button on the front panel of the home cinema system repeatedly until the "**BT AUDIO**" appears.
   - The mode switches as follows : **DVD/CD → D.IN → AUX 1 → AUX 2 → USB → (BT AUDIO) → FM**.
   - You will see "**WAIT**" for 2 seconds and then "**READY**" on the front display of the Home Theater System.
2. Select the Bluetooth menu on the Bluetooth device you want to connect. (refer to Bluetooth device's user manual)
3. Select a Stereo headset menu on the Bluetooth device.
   - You will see a list of scanned devices.
4. Select "**Samsung Home Theater**" from the searched list.
   - When the Home Cinema System is connected to the Bluetooth device, the Home Cinema System will display "**Connect**" on the front display, followed by the name of the connected Bluetooth device.
   - The Home Cinema System connection is complete.
5. Play music on the connected device.
   - You can listen to the music playing on the connected Bluetooth device over the home cinema system.





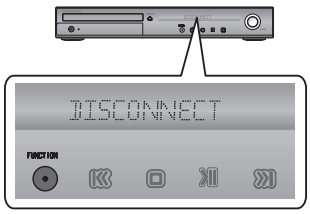
- You may be required to enter a PIN code(password) when connecting the Bluetooth device to the home cinema system. If the PIN code input window appears, enter <0000>.
- The Home Cinema System may control play related function only when connected device supports the function.
- If connected device dose not support some play related function, the Home Cinema System can't control the device.
- The Home Cinema System only supports Middle Quality SBC data(up to 237kbps@48kHz), and does not support High Quality SBC data(328kbps@44.1kHz).
- HT-KZ210/TKZ212/TKZ212 doesn't support Bluetooth function.

USING BLUETOOTH

To disconnect the Bluetooth device from the Home Cinema System

You can disconnect the Home Cinema System from the Bluetooth device (refer to Bluetooth devices' user manual).

- The Home Cinema System will be disconnected.
- When the Home Cinema System is disconnected from the Bluetooth device, the Home Cinema System will display "**DISCONNECT**" on the front display.



To disconnect the Home Cinema System from the Bluetooth device

Press the **FUNCTION** button on the front panel of the home cinema system to switch from "**BT AUDIO**" to another mode.

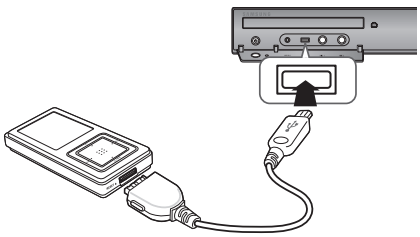
- The bluetooth device connected will wait a certain time for response from the home cinema system before terminating the connection. (Time to disconnection may differ, depending on the bluetooth device)
- The currently connected device will be disconnected.

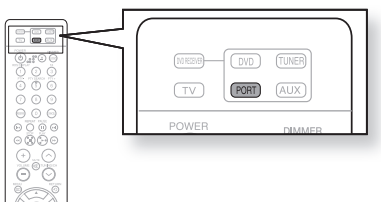
- In Bluetooth connection mode, the Bluetooth connection will be lost if the distance between the Home Cinema System and the Bluetooth device exceeds 10 m.
  If the distance is returned to the effective range or you restart the Bluetooth device, the Bluetooth connection can be restored.
- With some bluetooth devices, some functions may not work properly.
- HT-KZ210/TKZ212/TKZ212 doesn't support Bluetooth function.

PLAYING MEDIA FILES USING THE USB HOST FEATURE

You can enjoy media files such as pictures, movies and music saved on an MP3 player, USB memory stick or digital camera in high quality video with 5.1 channel Home Cinema sound by connecting the storage device to the USB port of the Home Cinema.

1. Connect the USB device to the USB port on the front of the unit.
2. Press the **FUNCTION** button on the DVD Player or the **PORT** button on the remote control to select the USB mode.
   - **USB** appears on the display screen and then disappears.
   - The USB MENU screen appears on the TV screen and the saved file is played.
3. To stop playback, press the **STOP** (■) button.

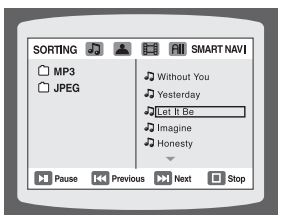




Safe PORT Removal

To prevent damage to the memory stored in the USB device, perform safe removal before disconnecting the USB cable.

- Press the **STOP** (■) button twice in a row. The display will show **REMOVE USB**.
- Remove the USB cable.

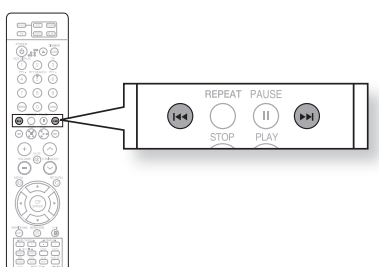


- To listen to your music files with 5.1 channel home cinema sound, you must set the Dolby Pro Logic II mode to Matrix. (See page 60)
- In USB mode, you are not able to change the resolution or use the SETUP menu if there is no USB device connected to the USB port.

Skip Forward/Back

During playback, press the ⏮,⏭ button.

- When there is more than one file and you press the ⏭ button, the next file is selected.
- When there is more than one file and you press the ⏮ button, the previous file is selected.



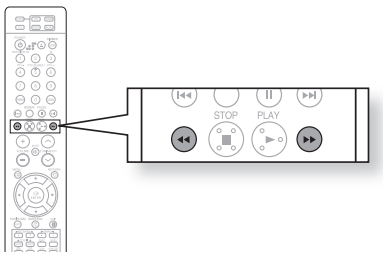
PLAYING MEDIA FILES USING THE USB HOST FEATURE

Fast playback

During playback, press the ◀◀,▶▶ button.

- Each time you press either button, the playback speed will change as follows:

2x → 4x → 8x → 32x → Normal.



Compatible Devices

1. USB devices that support USB Mass Storage v1.0. (USB devices that operate as a removable disc in Windows (2000 or later) without additional driver installation.)
2. MP3 Player: HDD and flash type MP3 players.
3. Digital camera: Cameras that support USB Mass Storage v1.0.
   - Cameras that operate as a removable disc in Windows (2000 or later) without additional driver installation.
4. USB HDD and USB Flash Drive: Devices that support USB2.0 or USB1.1.
   - You may experience a difference in playback quality when you connect a USB1.1 device.
   - For a USB HDD, make sure to connect an auxiliary power cord to the USB HDD for proper operation.
5. USB card Reader: One slot USB card reader and Multi slot USB card reader.
   - Depending on the manufacturer. the USB card reader may not be supported.
   - If you install multiple memory devices into a multi card reader, you may experience problems.
6. If you use a USB extension cable, the USB device might not be recognized.

Supported Formats

Format	File name	File extension	Bit rate	Version	Pixel	Sampling Frequency
Still Picture	JPG	JPG .JPEG	–	–	640x480	–
Music	MP3	.MP3	80~384kbps	–	–	44.1kHz
	WMA	.WMA	56~128kbps	V8	–	44.1kHz
Movie	WMV	.WMV	4Mbps	V1,V2,V3,V7	720x480	44.1KHz~48KHz
	DivX	.AVI,.ASF	4Mbps	DivX3.11~ DivX5.1, XviD	720x480	44.1KHz~48KHz

- CBI (Control/Bulk/Interrupt) is not supported.
- Digital Cameras that use PTP protocol or require additional program installation when connected to a PC are not supported.
- A device using NTFS file system is not supported. (The system supports only the FAT file system and will not play a movie larger than 1 GB in USB mode.)
- Some MP3 players, when connected to this product, may not operate depending on the sector size of their file system.
- The USB host function is not supported if a product that transfers media files by its manufacturer-specific program is connected.
- Does not operate with Janus enabled MTP (Media Transfer Protocol) devices.
- **The USB host function of this product does not support all USB devices. For information on supported devices, see page 80.**

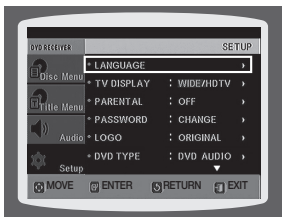
system setup

For your convenience, you can set this DVD Home Cinema's features for the best use in your home environment.

SETTING THE LANGUAGE

OSD(On-Screen Display) language is set to English by default.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Select **Language** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select **OSD Language** and then press the **ENTER** button.
5. Press the Cursor ▲,▼ button to select the desired language and then press the **ENTER** button.
   - Once the setup is complete, the OSD will be English if English has been selected as language.

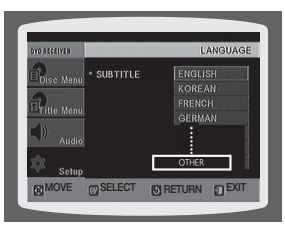


➢ Press the **RETURN** button to return to the previous level.
➢ Press the **EXIT** button to exit the setup screen.

- **OSD LANGUAGE** : Selecting the OSD Language
- **AUDIO** : Selecting the Audio Language (recorded on the disc)
- **SUBTITLE** : Selecting the Subtitle Language (recorded on the disc)
- **DISC MENU** : Selecting the Disc Menu Language (recorded on the disc)

※ If the language you selected is not recorded on the disc, menu language will not change even if you set it to your desired language.

- **OTHERS** : To select another language, select OTHERS and enter the language code of your country (see page 79). AUDIO, SUBTITLE and DISC MENU languages can be selected.

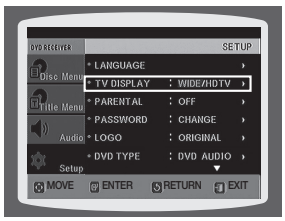


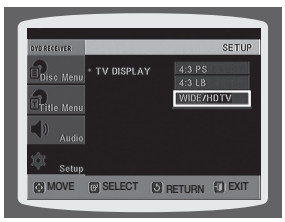
SETTING TV SCREEN TYPE

Depending on your TV type (Widescreen or conventional 4:3), you can select the TV's aspect ratio.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **TV DISPLAY** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired item and then press the **ENTER** button.
   - Once the setup is complete, you will be taken to the previous screen.

➢ Press the **RETURN** button to return to the previous level.
➢ Press the **EXIT** button to exit the setup screen.





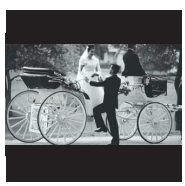
Adjusting the TV Aspect Ratio (Screen Size)

The horizontal to vertical screen size ratio of conventional TVs is 4:3, while that of widescreen and high definition TVs is 16:9. This ratio is called the aspect ratio. When playing DVDs recorded in different screen sizes, you should adjust the aspect ratio to fit your TV or monitor.

For a standard TV, select either **4:3PS** or **4:3LB** option according to personal preference.
Select **WIDE/HDTV** if you have a widescreen TV.

4:3PS (4:3 Pan&Scan)
Select this to play a 16:9 picture in the pan & scan mode on a conventional TV.
- You can see the central portion of the screen only (with the sides of the 16:9 picture cut off).

4:3LB (4:3 Letterbox)
Select this to play a 16:9 picture in the letter box mode on a conventional TV.
- Black bars will appear at the top and bottom of the screen.



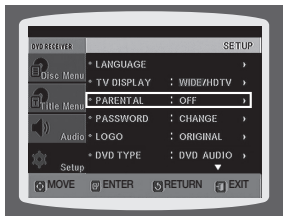
WIDE/HDTV
Select this to view a 16:9 picture in the full-screen mode on your widescreen TV.
- You can enjoy the widescreen aspect.

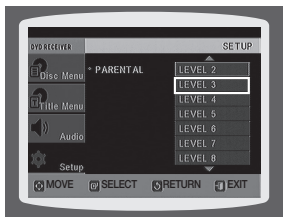
- If a DVD is in the 4:3 ratio, you cannot view it in widescreen.
- Since DVD discs are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.
- When using HDMI, the screen is automatically converted to Wide mode.

SETTING PARENTAL CONTROLS (RATING LEVEL)

Use this to restrict playback of adult or violent DVDs you do not want children to view.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **PARENTAL** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired rating level and then press the **ENTER** button.
   - If you have selected Level 6, you cannot view DVDs with Level 7 or higher.
   - The higher the level, the closer the content is to violent or adult material.
5. Enter the password and then press the **ENTER** button.
   - The password is set to "7890" by default.
   - Once the setup is complete, you will be taken to the previous screen.





➢ Press the **RETURN** button to return to the previous level.

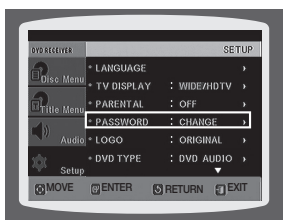
➢ Press the **EXIT** button to exit the setup screen.

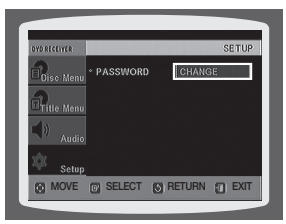
▪ This function works only if a DVD disc contains the rating level information.

SETTING THE PASSWORD

You can set the password for the Parental (rating level) setting.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **PASSWORD** and then press the **ENTER** button.
4. Press the **ENTER** button.
5. Enter the password and then press the **ENTER** button.
   - Enter the old password, a new password, and confirm new password.
   - The setting is complete.





▪ The password is set to "7890" by default.

If you have forgotten the rating level password, do the following

- While the player is in No Disc mode, hold the DVD Players **STOP** (■) button for longer than 5 seconds. **INITIAL** appears on the display and all settings will return to the default values.
- Press the **POWER** button.

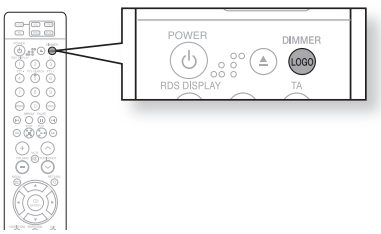
Using the RESET function will erase all stored settings.
Do not use this unless necessary.

SETTING THE WALLPAPER

DVD JPEG

While watching a DVD or JPEG CD, you can set the image you like as background wallpaper.

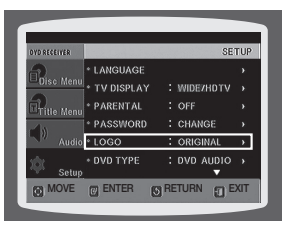
1. During playback, press the **PAUSE** button when an image you like appears.
2. Press the **LOGO** button.
   - **COPY LOGO DATA** will be displayed on the TV screen.
3. The power will turn off and then back on.
   - The selected wallpaper will be displayed.
   - You can select up to 3 wallpaper settings.

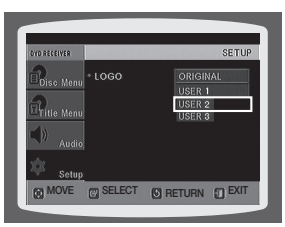


▪ This function will not work when the HDMI output is 720p, 1080i or 1080p.

TO SELECT ONE OF THE 3 WALLPAPER SETTINGS YOU'VE MADE

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **LOGO** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired **USER**, and then press the **ENTER** button.
   - This selects one of the 3 wallpaper screens.
5. Press the **EXIT** button to exit the setup screen.





- **ORIGINAL** : Select this to set the Samsung Logo image as your wallpaper.
- **USER** : Select this to set the desired image as your wallpaper.

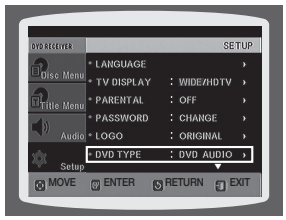
➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.

DVD PLAYBACK MODE (HT-KZ310/TKZ312/TKZ315 ONLY)

Some DVD-Audio discs contain DVD-Video as well as DVD-Audio.

To play back the DVD-Video portion of the DVD-Audio disc, set the unit to DVD-Video mode.



1. Press the **MENU** button while the disc tray is open.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **DVD TYPE** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to move to **DVD VIDEO** and then press the **ENTER** button.
   - Set steps 1 ~ 4 again if you want to switch to DVD AUDIO Play mode.

- **DVD VIDEO** : Set to play the DVD video contents contained on a DVD audio disc.
- **DVD AUDIO** : Set to play the default DVD audio.

- DVD Play mode is set to DVD Audio as factory default setting.
- Powering off the main unit will automatically switch to the DVD Audio mode.

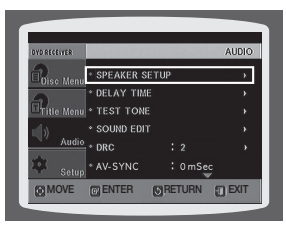
DviX (R) Registration

Please use the Registration code to register this player with the DivX (R) video on demand format.

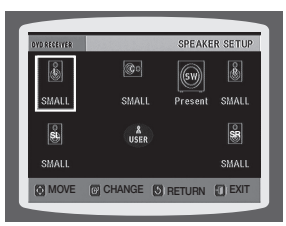
To learn more, go to www.divx.com/vod.

SETTING THE SPEAKER MODE

Signal outputs and frequency responses from the speakers will automatically be adjusted according to your speaker configuration and whether certain speakers are used or not.



1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. In the **SPEAKER SETUP**, press the **ENTER** button again.
4. Press the Cursor ▲,▼,◀,▶ button to move to the desired speaker and then press the **ENTER** button.
   - For C, SL, and SR, each time the button is pressed, the mode switches alternately as follows : SMALL → NONE.
   - For L and R, the mode is set to SMALL.



- **SMALL** : Select this when using the speakers.
- **NONE** : Select this when no speaker is connected.

➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.

- Depending on PRO LOGIC and STEREO settings, the speaker mode may vary (see page 60).

SETTING THE DELAY TIME

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the center and rear speakers.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **DELAY TIME** and then press the **ENTER** button.
4. Press the Cursor ▲,▼,◀,▶ button to move to the desired speaker and then press the **ENTER** button.
5. Press the Cursor ◀,▶ to set the Delay time.
   - You can set the delay time for C between 00 and 05mSEC and for SL and SR between 00 and 15mSEC.

➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.

Setting up the Speaker Delay Time

When 5.1CH Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same.
Since the sounds arrive at the listening position at different times depending on the placement of speakers, you can adjust this difference by adding a delay effect to the sound of the Center and Rear Speakers.

Setting CENTER SPEAKER

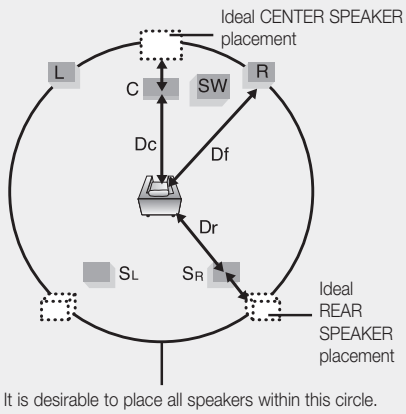
If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms.
Otherwise, change the setting according to the table.

Distance between Df and Dc	0.00 m	0.34 m	0.68 m	1.06 m	1.40 m	1.76 m
Delay Time	0 ms	1 ms	2 ms	3 ms	4 ms	5 ms

Setting REAR SPEAKER

If the distance of Dc is equal to or longer than the distance of Dr in the figure, set the mode as 0ms.
Otherwise, change the setting according to the table.

Distance between Df and Dc	0.00 m	1.06 m	2.11 m	3.16 m	3.62 m	5.29 m
Delay Time	0 ms	3 ms	6 ms	9 ms	12 ms	15 ms



It is desirable to place all speakers within this circle.

Df: The distance from FRONT SPEAKER
Dc: The distance from CENTER SPEAKER
Dr: The distance from REAR SPEAKER

- With **PL II** (Dolby Pro Logic II), the delay time may be different for each mode.
- With AC-3 and DTS, the delay time can be set between 00 and 15mSEC.
- The Center channel is only adjustable on 5.1 channel discs.

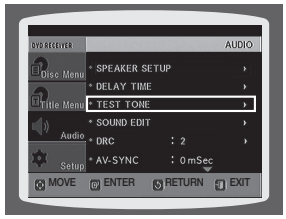
USING THE TEST TONE

Use the Test Tone feature to check the speaker connections.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **TEST TONE** and then press the **ENTER** button.
   - The test tone will be sent to **L → C → R → SR → SL → SW** in order.
     If the **ENTER** button is pressed again at this time, the test tone will stop.

➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.



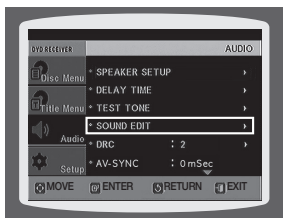
SETTING THE AUDIO

You can adjust the balance and level for each speaker.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **SOUND EDIT** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select and adjust the desired item. Press the Cursor ◀,▶ button to adjust the settings.

➢ Press the **RETURN** button to return to the previous level.

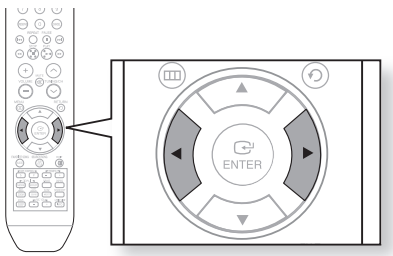
➢ Press the **EXIT** button to exit the setup screen.



SETTING THE AUDIO

Manually Adjusting the Speaker Volume and Balance with the SOUND EDIT Button.

Press the **SOUND EDIT** button and then press the Cursor ◀,▶ button.



Adjusting Front/Rear Speaker Balance

- You can select between 00, -06, and OFF.
- The volume decreases as you move closer to –6.

Adjusting Center/Rear/Subwoofer Speaker Level

- The volume level can be adjusted in steps from +6dB to –6dB.
- The sound gets louder as you move closer to +6dB and quieter as you get closer to -6dB.

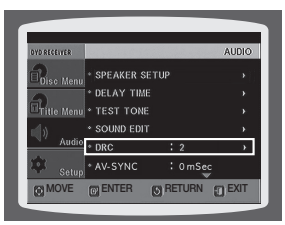
SETTING THE DRC (DYNAMIC RANGE COMPRESSION)

This feature balances the range between the loudest and quietest sounds. You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **DRC** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ to adjust the **DRC**.
   - When the Cursor ▲ button is pressed, the effect is greater, and when the Cursor ▼ button is pressed, the effect is smaller.

➢ Press the **RETURN** button to return to the previous level.

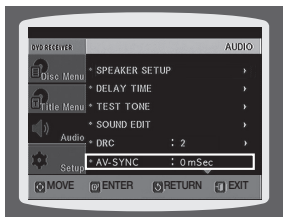
➢ Press the **EXIT** button to exit the setup screen.



SETTING THE AV SYNC

Video may look slower than the audio if it is connected to a digital TV. If this occurs, adjust the audio delay time to match the video.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **AV-SYNC** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the AV-SYNC Delay Time and then press the **ENTER** button.
   - You can set the audio delay time between 0 ms and 300 ms. Set it to the optimal status.



➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.

SETTING THE HDMI AUDIO

The audio signals transmitted over the HDMI Cable can be toggled ON/OFF.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **HDMI AUDIO** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select **ON** or **OFF** and then press the **ENTER** button.

- **ON :** Both video and audio signals are transmitted over the HDMI connection cable, and audio is output through your TV speakers only.
- **OFF :** Video is transmitted over the HDMI connection cable only, and audio is output through the home cinema speakers only.

➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.

- The default setting of this function is HDMI AUDIO OFF.
- HDMI AUDIO is automatically down-mixed to 2ch for TV speakers.

SOUND FIELD (DSP)/EQ FUNCTION

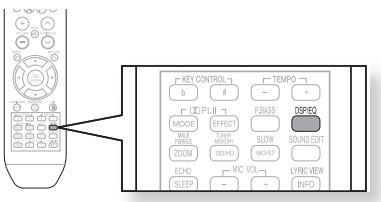
DSP(Digital Signal Processor) : DSP modes have been designed to simulate different acoustic environments.
EQ : You can select ROCK, POP, or CLASSIC to optimize the sound for the genre of music you are playing

Press the DSP/EQ button.

- **DSP** appears on the display panel.

Each time the button is pressed, the selection changes as follows:

POPS → JAZZ → ROCK → STUDIO → CLUB → HALL → MOVIE → CHURCH → PASS



- **POPS, JAZZ, ROCK** : Depending on the genre of music, you can select POP, JAZZ, and ROCK.
- **STUDIO** : Provides a sense of presence as if in a studio.
- **CLUB** : Simulates the sound of a dance club with a throbbing bass beat.
- **HALL** : Provides a clear vocal as if listening in a concert hall.
- **MOVIE** : Provides the feeling of a movie cinema.
- **CHURCH** : Gives the feel of being in a grand church.
- **PASS** : Select this for normal listening.

- The DSP/EQ function is only available in STEREO mode.
  Press the **PL II mode** button to show STEREO on the display.
- This feature works with CDs, MP3-CDs, 2 channel DVD-Audio, DivX, tuner and Dolby Digital discs.
- When playing a DVD disc encoded with two or more channels, multi-channel mode will be selected automatically and DSP/EQ function does not work.

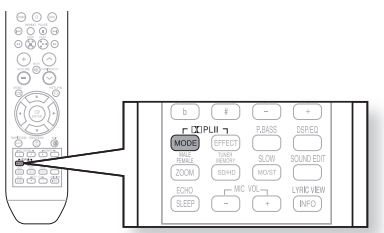
DOLBY PRO LOGIC II MODE

You can select the desired Dolby Pro Logic II audio mode.

Press the **PL II MODE** button.

- Each time the button is pressed, the mode changes as follows.

  MUSIC → CINEMA → PRO LOGIC → MATRIX → STEREO → MUSIC



PRO LOGIC II

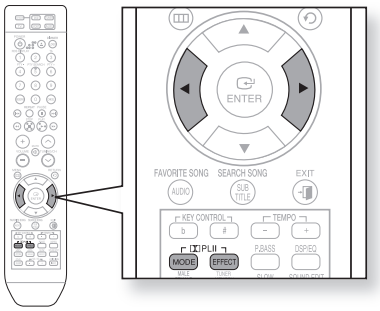
- **MUSIC** : When listening to music, you can experience sound effects as if you are listening to the actual performance.
- **CINEMA** : Adds realism to the movie soundtrack.
- **PRO LOGIC** : You will experience a realistic multi-channel effect, as if using five speakers, while using just the front left and right speakers.
- **MATRIX** : You will hear 5.1 channel surround sound.
- **STEREO** : Select this to listen to sound from the front left and right speakers and the subwoofer only.

- When selecting Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the player. If you connect to only one of the inputs (L or R), you cannot listen to surround sound.

DOLBY PRO LOGIC II EFFECT

This function works only in Dolby Pro Logic MUSIC mode.

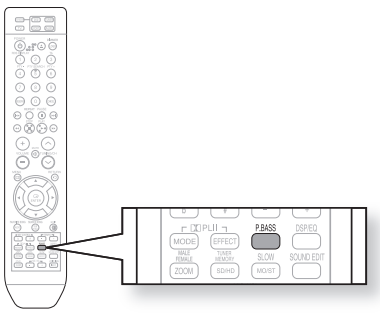
1. Press the **PL II MODE** button to select **MUSIC** mode.
2. Press the **PL II EFFECT** button.
3. Press the ◀,▶ buttons to select the desired effect setting.
   - PANORAMA : You can select either 0 or 1.
   - C- WIDTH : You can select between 0 and 7.
   - DIMENS : You can select between 0 and 6.



P.BASS

P.BASS function boosts the bass for a more powerful sound.

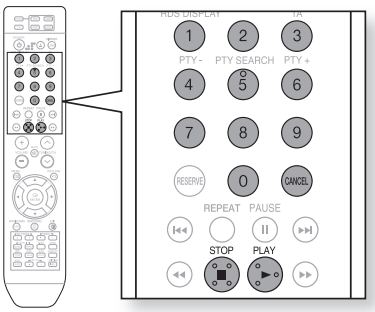
1. Press the **P.BASS** button to select P.BASS mode.
2. Press the **P.BASS** button again to turn off the P.BASS mode.



- The P.BASS function is only available with 2 channel LPCM sources such as mp3,Divx,cd and wma. Press P.BASS button and "POWER BASS ON" will be displayed on the screen.
- The P.bass does not work with DSP/EQ or DOLBY PRO LOGIC Ⅱ modes.
  If you press P.BASS in the DSP/EQ mode, the DSP/EQ mode is automatically shut off and the P. BASS function comes on.

PLAYING DVD-OK DISCS

You can enjoy the feeling of a karaoke bar in the comfort of your home. Watch the video and sing along the lyrics displayed on the TV screen with company.



1. Use the **number (0~9)** buttons to select the song you want to play back.
   - The number and title of the song will be displayed on top of the screen .
2. Press the **PLAY** (⊙) button.
   - The title of the song will be displayed on the screen and the accompaniment starts.

➢ To Clear Incorrectly Entered Song Numeric
- Press the **CANCEL** button.

➢ To Stop During Accompaniment
- Press the **STOP** (■) button.

RESERVING A SONG

Case 1>

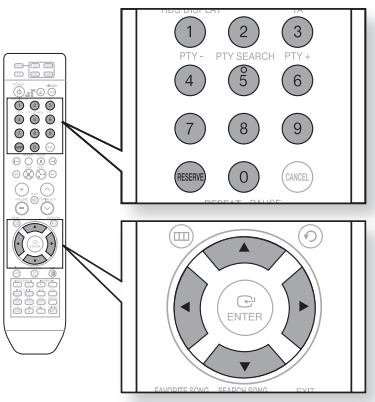
1. In Stop / Play mode, use the **number (0~9)** button to select a song.
2. Press the **RESERVE** button.

Case 2>

1. In the Search song list, use the ▲,▼,◀,▶ button to select a song.
2. Press the **RESERVE** button.

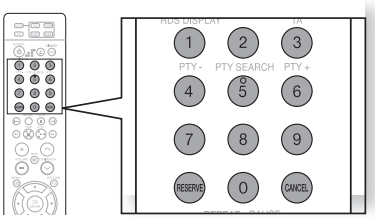
Case 3>

1. In the Favorite list, use the ▲,▼,◀,▶ button to select a song.
2. Press the **RESERVE** button.



RESERVING A SONG DURING ACCOMPANIMENT

While the accompaniment is playing, you can reserve the next song you want to sing.



1. Press the **number (0~9)** buttons to select the song you want to reserve.
2. Press the **RESERVE** button.
   - The next song is reserved.

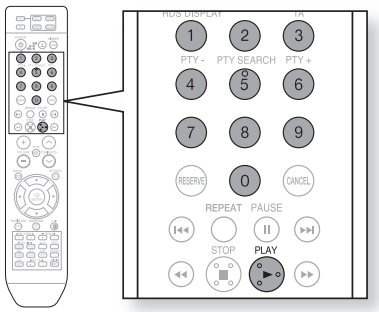
➢ To Cancel the Reservation
1. Enter the number of the song you have reserved.
2. Press the **CANCEL** button.

- RESERVE function will not operate if REPEAT function is set while DVD-OK is played.
- A maximum of ten songs can be reserved.

PRIORITY PLAYING ACCOMPANIMENT MUSIC

Even if there is a song already reserved, you can have the song you want to sing to be played first.

1. In Stop mode, press the **number (0~9)** buttons to select the song you want to play back.
2. Press the **PLAY** (⊙) button.



DVD-OK REPEAT PLAY

1. During the stop mode or accompaniment, press the **REPEAT** button.
2. Press ▲,▼ button to select the state of **REPEAT** mode.
3. Each time the button is pressed, the selection is changed as follows :

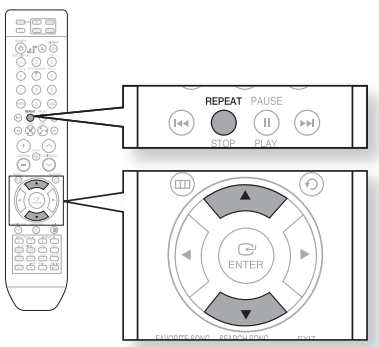
   Normal ↔ 1 ↔ ALL ↔ R

Normal : Repeat Off

1 : Repeat the selected song

ALL : Repeat all songs

R : Repeat songs in random order



▪ RESERVE function will not operate if REPEAT function is set while DVD-OK is played.

KARAOKE SETTING FUNCTION

- It consists of two modes: Karaoke and Setup.
- In Karaoke mode, you can select from Search song/ Favorite List/ Bowling game.
- In Setup mode, you can select from Back-vocal/ Fanfare/ Assesment level/ Shadow/ Language.

1. Press the **MENU** button in Stop mode.
2. Use the ▲,▼ button to select a desired mode (Karaoke/ Setup) and use the ▲,▼,◀,▶ button to select a desired item.

Setting the Back-vocal

You can set the back-vocal to ON or OFF.

1. Load a DVD-OK disc.
2. Press **MENU** button.
3. Use the ▲,▼,◀,▶ button to select **SETUP → Back-vocal**.
4. Use the ▲,▼ button to select the desired item and press the **ENTER** button.
   - The selection changes as follows :

   On → Off

- If you operate the Tempo function while a song with supporting chorus is played back, the chorus will be released.
- Back-vocal function may not work depending on information recorded in the disc.

Setting the Fanfare

You can set Fanfare to come out after singing a song.

1. Load a DVD-OK disc.
2. Press **MENU** button.
3. Use the ▲,▼,◀,▶ button to select **SETUP → Fanfare**.
4. Use the ▲,▼ button to select the desired item and press the **ENTER** button.
   - The selection changes as follows :

   On → Off

Setting the Assesment Level

You can set the grade of scores displayed in the screen in advance.

1. Load a DVD-OK disc.
2. Press **MENU** button.
3. Use the ▲,▼,◀,▶ button to select **SETUP → Assesment Level**.
4. Use the ▲,▼ button to select the desired item and press the **ENTER** button.
   - The selection changes as follows :

   Off → Easy → Middle → Hard

Setting the Shadow

You can set the lyrics to be displayed on the blue shadow box.

1. Load a DVD-OK disc.
2. Press **MENU** button.
3. Use the ▲,▼,◀,▶ button to select **SETUP → Shadow**.
4. Use the ▲,▼ button to select the **On/Off** popup and use the **ENTER** button to select a desired item.
   - The selection changes as follows :

   On → Off

Setting the Language

You can select the OSD language between English and Russian.

1. Load a DVD-OK disc.
2. Press **MENU** button.
3. Use the ▲,▼,◀,▶ button to select **SETUP → Language**.
4. Use the ▲,▼ button to select the **English/Russian** popup and use the **ENTER** button to select a desired item.
   - The selection changes as follows :

   English → Russian

SEARCHING SONG FUNCTION

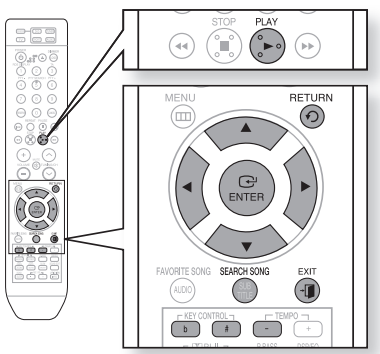
You can easily search songs on screen without viewing the song list book.

Pressing the (◀,▶) button in Song list mode will move one page at a time. ▲,▼ moves one song at a time.

Structure of Song Search

Items	Detailed Items	Alphabet(and Number)
Russian Ukranian Foreign	Title Artist	A ~ Я, 1 ~ 0 A ~ Я, 1 ~ 0 A ~ Я, 1 ~ 0
Duets	Title	
Genres	Rock Chanson Folk Ballad Romances	
Hits	Modern 70-80 Kids Patriotic	

Searching by Language



1. During the stop mode, press the **SEARCH SONG** button. or in MENU mode, use the ▲,▼,◀,▶ button to select **Karaoke → SEARCH SONG**
2. Press the **RED (b)** button, use the ▲,▼ button to select the language you want.
   - You can select the language among **Russian → Ukranian → Foreign**.
   - At this time, press **RETURN** button to move to the song list on the bottom.
3. Press **GREEN (#)** button and then press the ▲,▼ button to select the **Title** or **Artist**.
4. Press **YELLOW (-)** button to move to alphabet and press ▲,▼ button to select a character.
5. Press the **BLUE (+)** button and then press the ▲,▼ buttons to move to the detailed items.
6. Press **ENTER** button to move to the song list and then press ▲,▼ button to select the song you want.
7. Press the **PLAY** button to play back the selected song.

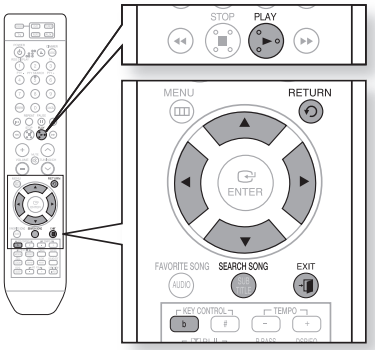
➢ To Exit Search Song Screen

- Press **EXIT** button.

Searching a DUET SONG

1. During the stop mode, press the **SEARCH SONG** button. or in MENU mode, use the ▲,▼,◀,▶ button to select **Karaoke → SEARCH SONG**
2. Press the **RED (b)** button, press the ▲,▼ button to select the **Dutes**.
   - At this time, press **RETURN** button to move to the song list on the bottom.
3. Press **GREEN (#)** button to select the **Title**.
4. Press **YELLOW (-)** button to move to alphabet and press ▲,▼ button to select a character.
5. Press the **BLUE (+)** button and then press the ▲,▼ buttons to move to the detailed items.
6. Press **ENTER** button to move to the song list and then press ▲,▼ button to select the song you want.
7. Press the **PLAY** button to play back the selected song.

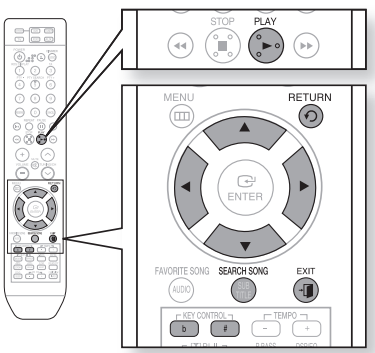
➢ To Exit Search Song Screen
- Press **EXIT** button.

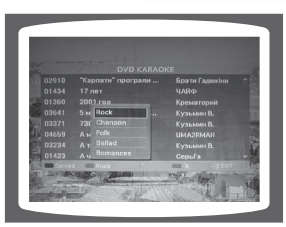


Searching by Genre

1. During the stop mode, press the **SEARCH SONG** button. or in MENU mode, use the ▲,▼,◀,▶ button to select **Karaoke → SEARCH SONG**
2. Press the **RED (b)** button, press the ▲,▼ button to select the **Genres**.
   - At this time, press **RETURN** button to move to the song list on the bottom.
3. Press **GREEN (#)** button to move to the detailed items and then press ▲,▼ button to select the genre you want.
   - You can select the genre among **ROCK → Chanson → Folk → Ballad → Romances**.
4. Press **YELLOW (-)** button to move to alphabet and press ▲,▼ button to select a character.
5. Press the **BLUE (+)** button and then press the ▲,▼ buttons to move to the detailed items.
6. Press **ENTER** button to move to the song list and then press ▲,▼ button to select the song you want.
7. Press the **PLAY** button to play back the selected song.

➢ To Exit Search Song Screen
- Press **EXIT** button.



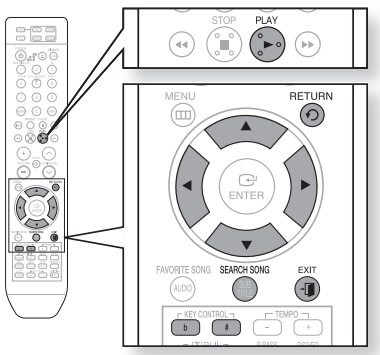


SEARCHING SONG FUNCTION

Searching by HIT SONGS

1. During the stop mode, press the **SEARCH SONG** button. or in MENU mode, use the ▲,▼,◀,▶ button to select **Karaoke → SEARCH SONG**
2. Press the **RED (b)** button ,press the ▲,▼ button to select the **Hits**.
   - At this time, press **RETURN** button to move to the song list on the bottom.
3. Press **GREEN (#)** button to move to the detailed items and then press ▲,▼ button to select the hits song.
   - You can select the song list among the detailed category **Modern → 70~80 → Kids → Patriotic**.
4. Press **YELLOW (-)** button to move to alphabet and press ▲,▼ button to select a character.
5. Press the **BLUE (+)** button and then press the ▲,▼ buttons to move to the detailed items.
6. Press **ENTER** button to move to the song list and then press ▲,▼ button to select the song you want.
7. Press the **PLAY** button to play back the selected song.

➢ To Exit Search Song Screen
- Press **EXIT** button.



FAVORITE SONG FUNCTION

You can save the song you like or sing often in the Favorite list 1,2 or 3 with which you can easily find and sing a song. You can save 50 songs for each Favorite list.

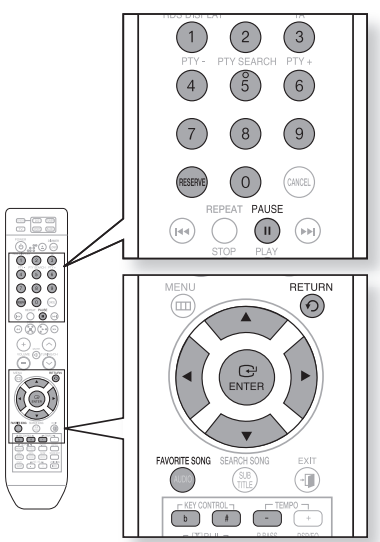
Saving FAVORITE SONG

Case 1>

1. During the stop mode, press the **FAVORITE SONG** button.
   - During the Menu mode, Use Cursors ▲,▼,◀,▶ button to select **Favorite Lists**.
2. Press **RED (b)**, **GREEN (#)**, **Yellow (-)** button to select the location to save among **FAVORITE1**, **2**, **3**.
3. Press the **number (0~9)** button to enter the song you want.
4. Press **FAVORITE SONG** button to save it on the favorite list.

Case 2>

1. Select **Search Song** function.
2. Select a song and press **FAVORITE SONG** button to **Add to Favorite**.
3. Select a location of Favorite, and press **ENTER** button.

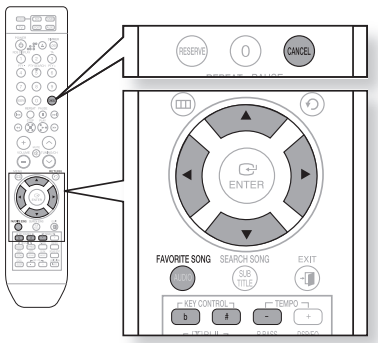


Case 3>

1. During the playback, press **PAUSE** (⏸) button.
2. Press **FAVORITE SONG** button.
3. Press ▲,▼ button to select the favorite list you want to save the song.
4. Press **ENTER** button to save the song.

Deleting FAVORITE SONG

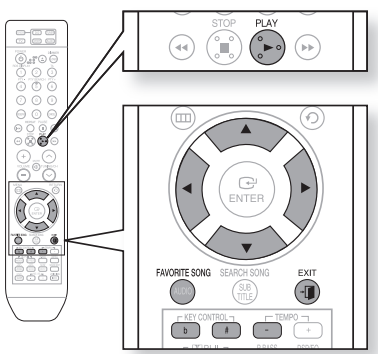
1. Press the **FAVORITE SONG** button in Stop mode, or use ▲,▼,◀,▶ button to select **Karaoke → Favorite lists** in Menu screen.
2. Use the **RED (b)**, **GREEN (#)**, **YELLOW (-)** buttons to select a desired Favorite list.
3. Select a song to delete and press the **CANCEL** button.



Singing FAVORITE SONG

1. Press the **FAVORITE SONG** button in Stop mode, or use ▲,▼,◀,▶ button to select **Karaoke → Favorite lists** in Menu screen.
2. Use the **RED (b)**, **GREEN (#)**, **YELLOW (-)** buttons to select a desired Favorite list.
3. Press ▲,▼ button to select the song you want.
4. Press the **PLAY** button to play back the selected song.

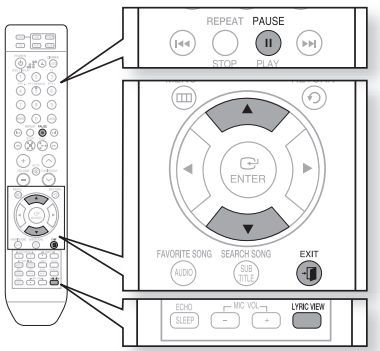
➢ To Exit FAVORITE SONG Screen
- Press **EXIT** button.



LYRIC VIEW FUNCTION

You can view lyrics for the current music.

1. Plays a song from Stop Mode/Favorite Song/Search Song/Bowling Game.
2. Press the Pause button and then press the **LYRIC VIEW** Button.
3. Use the ▲,▼ button to move to a desired lyric text.

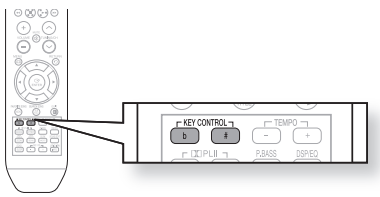


■ To exit the Lyric View mode, press the EXIT button.

KEY CONTROL

During the playback, press the **KEY CONTROL** buttons.

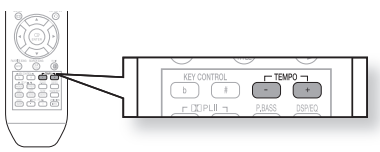
- Each time **GREEN (#)** button is pressed, the key is increased, and each time **RED (b)** button is pressed, the key is decreased.



TEMPO CONTROL

During the playback, press the **TEMPO** buttons.

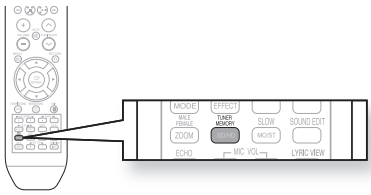
- Each time **BLUE (+)** button is pressed, the tempo gets faster, and each time **YELLOW (–)** button is pressed the tempo gets slower.



MALE-FEMALE KEY CONTROL

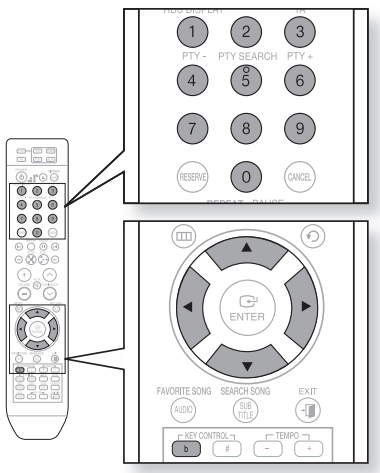
During the playback, press the **MALE/FEMALE** button.

- Each time the **MALE/FEMALE** button is pressed, this selection alternates between Male and Female.
- Select Male when singing in male voice and select Female when singing in female voice.



BOWLING GAME FUNCTION

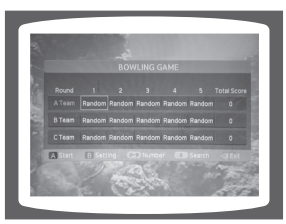
- You can make a team to participate in a singing contest.
- You can make the singing contest in up to 5 rounds with 3 different teams (max).
- One team can select 1st, 3rd or 5th round in a 2- or 3-teams contest.



1. Press the **MENU** button in Stop mode.
2. Use the ▲,▼,◀,▶ button to select **Karaoke → Bowling Game**.

Starting Bowling Game

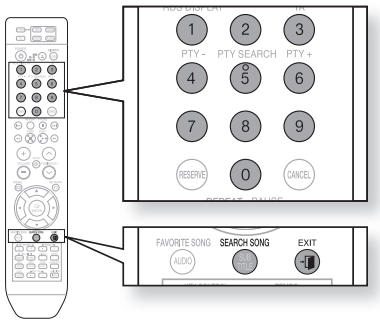
1. Select Bowling Game mode.
2. Use the ▲,▼,◀,▶ button to move to the team or to the applicable round and choose a song.
3. Use the **number (0~9)** button or the Search Song list to select a song.
4. When done, press the **RED (b)** button to start the game.
   - You can select a song in any round of the contest, not just at your turn.
   - If you do not select a song, a random song will be played.



BOWLING GAME FUNCTION

Reserving a song in the Bowling Game

1. In Bowling Game mode, use the **number (0~9)** button to select a song.
   - or In Bowling Game mode, press the **SEARCH SONG** button. Select a song in the Search song list.

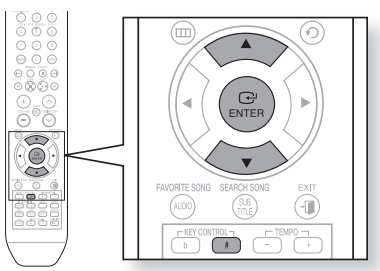


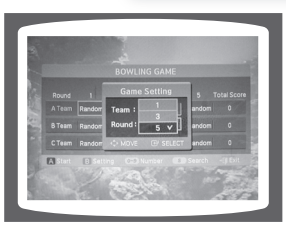
BOWLING GAME
Round 1 2 3 4 5 Total Score
A Team 00007 Random Random Random Random 0
B Team 00054 Random Random Random Random 0
C Team 00009 00005 Random Random Random 0
A Start B Setting Number Search Exit

▪ To return to the Bowling Game mode, press the EXIT button.

Setting Bowling Game

1. In Bowling Game mode, select the **GREEN (#)** button.
2. Use the ▲,▼ button to select a desired item (Team, Round) and press the **ENTER** button.
3. When a dialog box pops up, use the ▲,▼ button to select a desired number and press the **ENTER** button.
4. To apply your settings, press the **GREEN (#)** button.

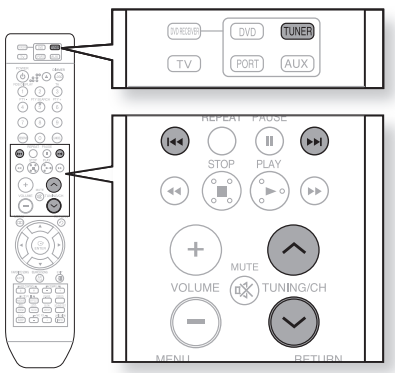




LISTENING TO RADIO

Remote Control

1. Press the **TUNER** button to select the FM band.
2. Tune in to the desired station.
   - **Automatic Tuning 1** : When the ⏮,⏭ button is pressed, a preset broadcast station is selected.
   - **Automatic Tuning 2** : Press and hold the ∧,∨ button to automatically search for active broadcasting stations.
   - **Manual Tuning** : Briefly press the ∧,∨ button to increase or decrease the frequency incrementally.



Main Unit

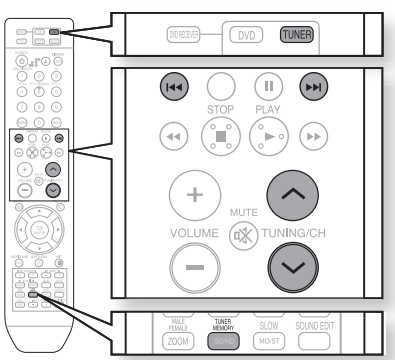
1. Press the **FUNCTION** button to select the FM band.
2. Select a broadcast station.
   - **Automatic Tuning 1** : Press the **STOP** (■) button to select **PRESET** and then press the ⏮,⏭ button to select the preset station.
   - **Automatic Tuning 2** : Press the **STOP** (■) button to select **MANUAL** and then press and hold the ⏮,⏭ button to automatically search the band.
   - **Manual Tuning** : Press the **STOP** (■) button to select **MANUAL** and then briefly press the ⏮ ⏭ button to tune in to a lower or higher frequency.

Press the **MO/ST** button to listen in Mono/Stereo.
- Each time the button is pressed, the sound switches between **STEREO** and **MONO**.
- In a poor reception area, select MONO for a clear, interference-free broadcast.

PRESETTING STATIONS

Example : Presetting FM 89.10 in the memory

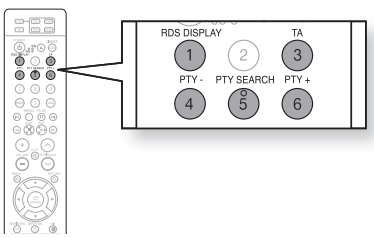
1. Press the **TUNER** button to select the FM band.
2. Press the ∧,∨ button to select **89.10**.
3. Press the **TUNER MEMORY** button.
4. Press the ⏮,⏭ button to select preset number.
   - You can select between 1 and 15 presets.
5. Press the **TUNER MEMORY** button again.
6. To preset another station, repeat steps 2 to 5.
   - To tune in to a preset station, press the ⏮,⏭ button on the remote control to select a channel.



ABOUT RDS BROADCASTING

Using the RDS (Radio Data System) to receive FM stations

RDS allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.



When tuned to an FM station which provides the RDS service, the RDS indicator lights up on the display.

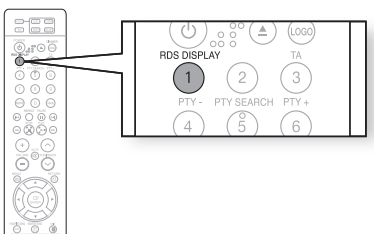
Description on RDS function

- PTY (Program Type) : Displays the type of programme currently being broadcast
- PS NAME (Program Service Name) : Indicates the name of broadcasting station and is composed of 8 characters.
- RT (Radio Text) : Decodes the text broadcast by a station (if any) and is composed of maximum 64 characters.
- CT (Clock Time) : Decodes the real time clock from the FM frequency.
- TA (Traffic Announcement) : When this symbol flashes it shows that the traffic announcement is in progress.

- RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.
- Some stations may not transmit PTY, RT or CT information therefore this may not be displayed in all cases.

To show the RDS signals

You can see the RDS signals the station sends on the display.



Press the RDS DISPLAY while listening to an FM station.

- Each time you press the button, the display change to show you the following information : PS NAME ➞ RT ➞ CT ➞ Frequency

- PS (Program Service) : While searching, <PS> appears and then the station names will be displayed. <NO PS> appears if no signal is sent.
- RT(RadioText) : while searching, <RT> appears and then text messages the station sends will be displayed. <NO RT> appears if no signal is sent.
- Frequency : station frequency (non-RDS service)

About characters shown in the display

When the display shows PS,or RT signals,the following characters are used.

- The display window cannot differentiate upper case and lower case letters and always uses upper case letters.
- The display window cannot show accented letters, <A,> for instance, may stands for accented <A's> like <À, Â, Ä, Á, Å and Ã.>

PTY (Program Type) indication and PTY-SEARCH function

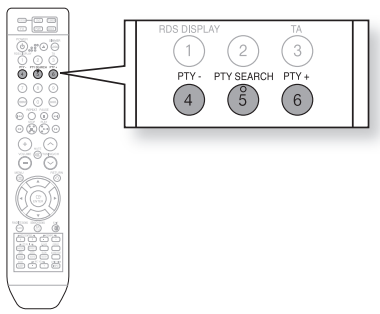
One of the advantages of the RDS service is that you can locate a particular kind of program from the preset channels by specifying the PTY codes.

To search for a program using the PTY codes

Before you start, remember...

- The PTY Search is only applicable to preset stations.
- To stop searching any time during the process, press **PTY SEARCH** while searching.
- There is a time limit in doing the following steps. If the setting is cancelled before you finish, start from step 1 again.
- When pressing the buttons on the primary remote control, make sure that you have selected the FM station using the primary remote control.

1. Press the **PTY SEARCH** while listening to an FM station.
2. Press the **PTY-** or **PTY+** until the PTY code you want appears on the display.
   - The display gives you the PTY codes described to the right.
3. Press the **PTY SEARCH** again, while the PTY code selected in the previous step is still on the display.
   - The center unit searches 15 preset FM stations, stops when it finds the one you have selected, and tunes in that station.



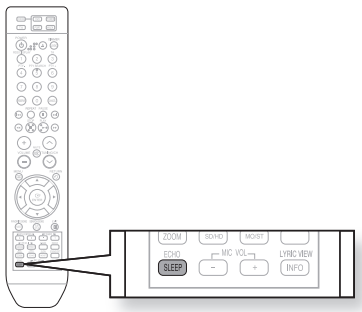
Display	Program Type
NEWS	News including an announced opinion and report
AFFAIRS	Several matters including a current incident, documentary, discussion and analysis.
INFO	Information including weights and measures, returns and forecast, matters interesting the customer, medical information, etc.
SPORT	Sports
EDUCATE	Education
DRAMA	Drama-Radio serial, etc.
CULTURE	Culture-National or local culture including the religious problem, social science, language, cinema, etc.
SCIENCE	Natural science and technology
VARIED	Others-Speech, amusing program (quiz, game), interview, comedy and satirical play, etc.
POP M	Pop music
ROCK M	Rock music
M.O.R.M	Current contemporary music considered to be “easy listening.”

Display	Program Type
LIGHT M	Light classical music- Classical music and instrumental and chorus music
CLASSICS	Heavy classical music-Orchestra music, symphony, chamber music and opera
OTHER M	Other music - Jazz, R&B country music
WEATHER	Weather
FINANCE	Finance
CHILDREN	Children’s programmes
SOCIAL A	Social affairs
RELIGION	Religion
PHONE IN	Phone in
TRAVEL	Travel
LEISURE	Leisure
JAZZ	Jazz Music
COUNTRY	Country Music
NATION M	National Music
OLDIES	Oldies Music
FOLK M	Folk Music
DOCUMENT	Documentary

convenient function

SLEEP TIMER FUNCTION

You can set the time that the Home Cinema will shut itself off.



Press the **SLEEP** button.

- **SLEEP** will be displayed. Each time the button is pressed, the preset time changes as follows :
  10 ➞ 20 ➞ 30 ➞ 60 ➞ 90 ➞ 120 ➞ 150 ➞ OFF.

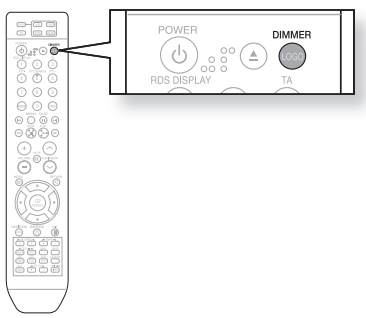
To confirm the sleep timer setting, press the **SLEEP** button.

- The remaining time before the Home Cinema will shut itself off is displayed.
- Pressing the button again changes the sleep time from what you have set earlier.

To cancel the sleep timer, press the **SLEEP** button until **OFF** appears on the display.

ADJUSTING DISPLAY BRIGHTNESS

You can adjust the brightness of the display on the main unit so it won't interfere with your movie viewing.

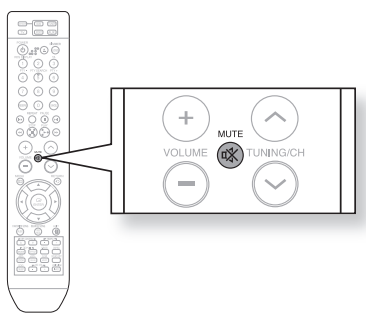


Press the **DIMMER** button.

- Each time the button is pressed, the brightness of front display will be adjusted.

MUTE FUNCTION

This is useful when answering a doorbell or telephone call.



Press the **MUTE** button.

- **MUTE** appears in the display.
- To restore the sound, press the **MUTE** button again.

troubleshooting

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Electronics Service Center.

SYMPTOM	Check/Remedy
Disc tray does not open.	• Is the power cord plugged securely into the outlet? • Turn off the power and then turn it back on.
Playback does not start immediately when the Play/Pause button is pressed.	• Are you using a deformed disc or a disc with scratches on the surface? • Wipe the disc clean.
Sound is not produced.	• No sound is heard during fast playback, slow playback, and step motion playback. • Are the speakers connected properly? Is the speaker setup correctly customized? • Is the disc severely damaged?
Sound can be heard only from a few speakers and not all six.	• When listening to a CD or radio, sound is output to the front speakers (L/R) only. Select "PRO LOGIC II" by pressing PL II (Dolby Pro Logic II) on the remote control to use all six speakers. • Make sure that the DVD disc is 5.1-CH compatible. • If you set C, SL, and SR to NONE in the speaker mode in the audio setup of the setup screen, no sound is heard from the center speaker and the front left and right speakers. Set C, SL, and SR to SMALL.
Dolby Digital 5.1 CH Surround Sound is not produced.	• Is there "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound. • Is the audio language correctly set to DOLBY DIGITAL 5.1-CH in the information display?
The remote control does not work.	• Is the remote control being operated within its operation range of angle and distance? • Are the batteries exhausted? • Have you selected the mode(TV/DVD) functions of the remote control (TV or DVD) correctly?
• Disc is rotating but no picture is produced. **• Picture quality is poor and picture is shaking.**	• Is the TV power on? • Are the video cables connected properly? • Is the disc dirty or damaged? • A poorly manufactured disc may not be playable.

troubleshooting

SYMPTOM	Check/Remedy
Audio language and subtitles do not work.	• Audio language and subtitles will not work if the disc does not contain them.
Menu screen does not appear even when the menu function is selected.	• Are you using a disc that does not contain menus?
Aspect ratio cannot be changed.	• You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3 ratio only. Refer to the DVD disc jacket and then select the appropriate function.
• The main unit is not working. (Example: The power goes out or strange noise is heard.) **• The DVD player is not working normally.**	• Turn off the power and hold the **STOP** (■) button on the main unit for longer than 5 seconds (reset function). **Using the RESET function will erase all stored settings. Do not use this unless necessary.**
The password for rating level has been forgotten.	• While “NO DISC” message appears on the display of main unit, hold the main unit's **STOP** (■) button for longer than 5 seconds. “INITIAL” appears on the display and all settings will return to the default values. • Press the POWER button. **Using the RESET function will erase all stored settings. Do not use this unless necessary.**
Can't receive radio broadcast.	• Is the antenna connected properly? • If the antenna's input signal is weak, install an external FM antenna in an area with good reception.

language code list

Enter the appropriate code number for the initial settings “Disc Audio”, “Disc Subtitle” and/or “Disc Menu” (See page 51).

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1181	Frisian	1334	Latvian, Lettish	1506	Slovenian
1028	Abkhazian	1183	Irish	1345	Malagasy	1507	Samoan
1032	Afrikaans	1186	Scots Gaelic	1347	Maori	1508	Shona
1039	Amharic	1194	Galician	1349	Macedonian	1509	Somali
1044	Arabic	1196	Guarani	1350	Malayalam	1511	Albanian
1045	Assamese	1203	Gujarati	1352	Mongolian	1512	Serbian
1051	Aymara	1209	Hausa	1353	Moldavian	1513	Siswati
1052	Azerbaijani	1217	Hindi	1356	Marathi	1514	Sesotho
1053	Bashkir	1226	Croatian	1357	Malay	1515	Sundanese
1057	Byelorussian	1229	Hungarian	1358	Maltese	1516	Swedish
1059	Bulgarian	1233	Armenian	1363	Burmese	1517	Swahili
1060	Bihari	1235	Interlingua	1365	Nauru	1521	Tamil
1069	Bislama	1239	Interlingue	1369	Nepali	1525	Tegulu
1066	Bengali; Bangla	1245	Inupiak	1376	Dutch	1527	Tajik
1067	Tibetan	1248	Indonesian	1379	Norwegian	1528	Thai
1070	Breton	1253	Icelandic	1393	Occitan	1529	Tigrinya
1079	Catalan	1254	Italian	1403	(Afan) Oromo	1531	Turkmen
1093	Corsican	1257	Hebrew	1408	Oriya	1532	Tagalog
1097	Czech	1261	Japanese	1417	Punjabi	1534	Setswana
1103	Welsh	1269	Yiddish	1428	Polish	1535	Tonga
1105	Danish	1283	Javanese	1435	Pashto, Pushto	1538	Turkish
1109	German	1287	Georgian	1436	Portuguese	1539	Tsonga
1130	Bhutani	1297	Kazakh	1463	Quechua	1540	Tatar
1142	Greek	1298	Greenlandic	1481	Rhaeto-Romance	1543	Twi
1144	English	1299	Cambodian	1482	Kirundi	1557	Ukrainian
1145	Esperanto	1300	Kannada	1483	Romanian	1564	Urdu
1149	Spanish	1301	Korean	1489	Russian	1572	Uzbek
1150	Estonian	1305	Kashmiri	1491	Kinyarwanda	1581	Vietnamese
1151	Basque	1307	Kurdish	1495	Sanskrit	1587	Volapuk
1157	Persian	1311	Kirghiz	1498	Sindhi	1613	Wolof
1165	Finnish	1313	Latin	1501	Sangro	1632	Xhosa
1166	Fiji	1326	Lingala	1502	Serbo-Croatian	1665	Yoruba
1171	Faeroese	1327	Laothian	1503	Singhalese	1684	Chinese
1174	French	1332	Lithuanian	1505	Slovak	1697	Zulu

USB host feature supported products

DIGITAL CAMERA

Product	Company	Type	Product	Company	Type
Finepix-A340	Fuji	Digital Camera	U300	Olympus	Digital Camera
Finepix-F810	Fuji	Digital Camera	X-350	Olympus	Digital Camera
Finepix-F610	Fuji	Digital Camera	C-760	Olympus	Digital Camera
Finepix-f450	Fuji	Digital Camera	C-5060	Olympus	Digital Camera
Finepix S7000	Fuji	Digital Camera	X1	Olympus	Digital Camera
Finepix A310	Fuji	Digital Camera	U-mini	Olympus	Digital Camera
KD-310Z	Konica	Digital Camera	Lumix-FZ20	Panasonic	Digital Camera
Finecam SL300R	Kyocera	Digital Camera	DMC-FX7GD	Panasonic	Digital Camera
Finecam SL400R	Kyocera	Digital Camera	Lumix LC33	Panasonic	Digital Camera
Finecam S5R	Kyocera	Digital Camera	LUMIX DMC-F1	Panasonic	Digital Camera
Finecam Xt	Kyocera	Digital Camera	Optio-S40	Pentax	Digital Camera
Dimage-Z1	Minolta	Digital Camera	Optio-S50	Pentax	Digital Camera
Dimage Z1	Minolta	Digital Camera	Optio 33LF	Pentax	Digital Camera
Dimage X21	Minolta	Digital Camera	Optio MX	Pentax	Digital Camera
Coolpix4200	Nikon	Digital Camera	Digimax-420	Samsung	Digital Camera
Coolpix4300	Nikon	Digital Camera	Digimax-400	Samsung	Digital Camera
Coolpix 2200	Nikon	Digital Camera	Sora PDR-T30	Toshiba	Digital Camera
Coolpix 3500	Nikon	Digital Camera	Coolpix 5900	Nikon	Digital Camera
Coolpix 3700	Nikon	Digital Camera	Coolpix S1	Nikon	Digital Camera
Coolpix 4100	Nikon	Digital Camera	Coolpix 7600	Nikon	Digital Camera
Coolpix 5200	Nikon	Digital Camera	DMC-FX7	Panasonic	Digital Camera
Stylus 410 digital	Olympus	Digital Camera	Dimage Xt	Minolta	Digital Camera
300-digital	Olympus	Digital Camera	AZ-1	Olympus	Digital Camera
300-digital	Olympus	Digital Camera			

USB FLASH DISC

Product	Company	Type	Product	Company	Type
Cruzer Micro	Sandisk	USB 2.0 USB Flash Drive 128M	XTICK	LG	USB 2.0 128M
Cruzer Mini	Sandisk	USB 2.0 128M	Micro Mini	Iomega	USB 2.0 128M
Cruzer Mini	Sandisk	USB 2.0 256M	iFlash	Imation	USB 2.0 64M
SONY Micro Vault	Sony	USB 2.0 64MB	LG	XTICK(M)	USB 2.0 64M
FLEX DRIVE	Serotech	USB 2.0 32MB	RiDATA	EZDrive	USB 2.0 64M
AnyDrive	A.L tech	USB 2.0 128MB			

MP3 PLAYER

Product	Company	Type	Product	Company	Type
Creative MuVo NX128M	Creative	128 MB MP3 Player	YP-K3	Samsung	MP3 Player
Iriver H320	Iriver	20G HDD MP3 Player	YP-U3	Samsung	MP3 Player
YH-920	Samsung	20G HDD MP3 Player	YP-Z5F	Samsung	MP3 Player
YP-T7	Samsung	MP3 Player	iAUDIO U2	Cowon	MP3 Player
YP-MT6	Samsung	MP3 Player	iAUDIO G3	Cowon	MP3 Player
YP-T6	Samsung	MP3 Player	iAudio M3	Cowon	HDD MP3 Player
YP-T9	Samsung	MP3 Player	SI-M500L	Sharp	256MB MP3 Player
YP-ST5	Samsung	MP3 Player	H10	Iriver	MP3 Player
YP-T5	Samsung	MP3 Player	YP-T10	Samsung	MP3 Player
YP-K5	Samsung	MP3 Player	YP-P2	Samsung	MP3 Player

appendix

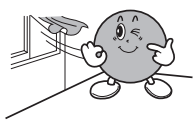
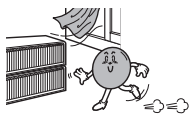
CAUTIONS ON HANDLING AND STORING DISCS

Small scratches on the disc may reduce sound and picture quality or cause skipping.
Be especially careful not to scratch discs when handling them.

Handling discs

Do not touch the playback side of the disc.
Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

Disc Storage

Do not keep in direct sunlight	Keep in a cool ventilated area	Keep in a clean Protection jacket. Store vertically.
		

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked or scratched discs.

Handling and Storing Discs

When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

• When cleaning, wipe gently from the inside to the outside of the disc

- Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

appendix

SPECIFICATIONS

General	Power Consumption	80 W
	Weight	3.5 kg
	Dimensions	430 (W) x 65 (H) x 352 (D) mm
	Operating Temperature Range	+5°C~+35°C
	Operating Humidity Range	10 % to 75 %
Disc	DVD (Digital Versatile Disc)	Reading Speed : 3.49 ~ 4.06 m/sec.
		Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 12 cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 74 min.
	CD : 8cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 20 min.
Video Output	Composite Video	576i/480i
		1 channel : 1.0 Vp-p (75 Ω load)
	Component Video	576i/480i
		Y : 1.0 Vp-p (75 load)
		Pr : 0.70 Vp-p (75 Ω load)
		Pb : 0.70 Vp-p (75 Ω load)
Video/Audio	HDMI	1080p, 1080i, 720p, 576p/480p

HT-KZ210, HT-TKZ212, HT-TKZ212

Amplifier	Front speaker output	133W x 2(3Ω)
	Center speaker output	133W(3Ω)
	Rear speaker output	133W x 2(3Ω)
	Subwoofer speaker output	135W(3Ω)
	Frequency range	20Hz~20KHz
	S/N Ratio	70dB
	Channel separation	60dB
	Input sensitivity	(AUX)400mV

HT-KZ310, HT-TKZ312, HT-TKZ315

Amplifier	Front speaker output	166W x 2(3Ω)
	Center speaker output	166W(3Ω)
	Rear speaker output	166W x 2(3Ω)
	Subwoofer speaker output	170W(3Ω)
	Frequency range	20Hz~20KHz
	S/N Ratio	70dB
	Channel separation	60dB
	Input sensitivity	(AUX)400mV

HT-KZ210

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Center	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	133W	133W	135 W
	Maximum input	266W	266W	270 W
	Dimensions (W x H x D)	Front/Rear : 90 x 118 x 90 mm Center : 250 x 91 x 90 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 0.5 kg, Center : 0.6 kg Rear : 0.4 kg, Subwoofer : 4.5 kg		

HT-TKZ212

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Center	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	133W	133W	135 W
	Maximum input	266W	266W	270 W
	Dimensions (W x H x D)	Front : 90 x 1020 x 92 mm (stand base : 280 x 280) Rear : 90 x 118 x 90 mm Center : 250 x 91 x 90 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 2.8 kg, Center : 0.6 kg Rear : 0.4 kg, Subwoofer : 4.5 kg		

HT-TKZ212

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Center	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	133W	133W	135 W
	Maximum input	266W	266W	270 W
	Dimensions (W x H x D)	Front/Rear : 90 x 1020 x 92 mm (stand base : 280 x 280) Center : 250 x 91 x 90 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 2.8 kg, Center : 0.6 kg Rear : 2.6 kg, Subwoofer : 4.5 kg		

SPECIFICATIONS

HT-KZ310

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Center	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	166W	166W	170W
	Maximum input	332W	332W	340W
	Dimensions (W x H x D)	Front : 90 x 230 x 92 mm Rear : 90 x 137 x 92 mm Center : 300 x 101 x 91.5 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 0.6 kg, Center : 0.9 kg Rear : 0.5 kg, Subwoofer : 4.5 kg		

HT-TKZ312

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Center	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	166W	166W	170W
	Maximum input	332W	332W	340W
	Dimensions (W x H x D)	Front : 90 x 1020 x 92 mm (stand base : 280 x 280) Rear : 90 x 137 x 92 mm Center : 300 x 101 x 91.5 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 3.0 kg, Center : 0.9 kg Rear : 0.5 kg, Subwoofer : 4.5 kg		

HT-TKZ315

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Center	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	166W	166W	170W
	Maximum input	332W	332W	340W
	Dimensions (W x H x D)	Front /Rear: 90 x 1020 x 92 mm (stand base : 280 x 280) Center : 300 x 101 x 91.5 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 3.0 kg, Center : 0.9 kg Rear : 3.0 kg, Subwoofer : 4.5 kg		

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

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